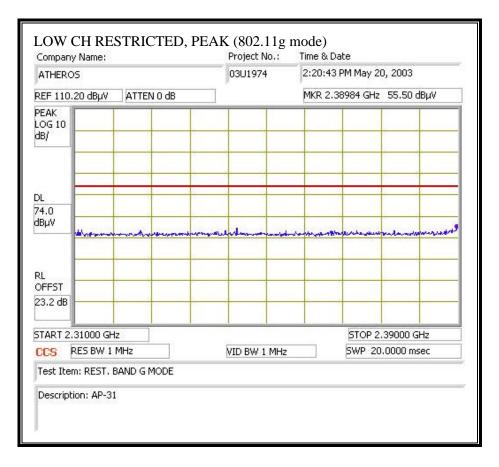
### HARMONICS AND SPURIOUS EMISSIONS (b MODE, HIGH CHANNEL)

05/20/03			Measureme												
Complia	nce Ce	rtification S	Services, Mo	rgan H	ill Op	en Field	Site								
T		NEEL COLLD													
Test Eng Project #		NEELESH R	AJ												
Company		ATHEROS													
EUT Des		ATHEROS													
EUT Des															
Test Tar															
Mode Or		B MODE													
mout Of		DIMODE													
Test Equ	inment														
<u>rest Equ</u>		-													
-							Spectrum A	nalvzer					1		
ЕМСО	Horn 1-	18GHz	Pre-amplife	er 1-26Gi	1Z		<u> </u>				Horn > 18	-			
T60; S/	N: 2238	@3m 🗸	T86 Miteq 9	24341		HP 8	566B Anal	yzer	-	T87; ARA 1	8-26GHz; S/	N:1049	-		
			-			I									
🗕 Hi Fred	uency Cab	les							-			-			
□ (2			(4 ~ 6 ft)	<b>Z</b> (12 ft)					Measureme Resolution E			leasuremen lution Bandw			
L (2	1()	• (2~311)	(4~01t)	• (12 II)					Video Bandw		10Hz Video		lath		
						J		1101112	video Banaw	laur	10112 11460	Dandwiddn			
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz	feet	dBuV	dBuV	dB/m	dB	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
		HARMONIC	CS HIGH CHA	NNEL=	2462										
4.927	9.8	59.9	58.1	33.2	3.0	-45.7	0.0	1.0	51.3	49.5	74.0	54.0	-22.7	-4.5	v
7.380	9.8	57.0	50.7	36.3	3.8	-46.5	0.0	1.0	51.5	45.2	74.0	54.0	-22.5	-8.8	V
12.305	9.8	46.1 57.8	37.0	39.4	5.2	-45.7	0.0	1.0	45.9	36.8 45.2	74.0 74.0	54.0	-28.1	-17.2	V H
4.927 7.380	9.8 9.8	57.8	53.8 42.6	33.2 36.3	3.0 3.8	-45.7 -46.5	0.0	1.0 1.0	49.2 45.0	45.2	74.0	54.0 54.0	-24.8 -29.0	-8.8 -16.9	Н
12.305	9.8	46.2	36.9	39.4	5.8	-46.5	0.0	1.0	45.0	36.7	74.0	54.0	-29.0	-10.9	Н
12.000	7.0	40.2	50.5	57.4	5.2	-40.7	0.0	1.0	40.0	50.7	74.0	54.0	-20.0	-17.5	v
			spur												
2.688	9.8	51.3	46.2	30.1	2.1	-44.0	0.0	1.0	40.4	35.3	74.0	54.0	-33.6	-18.7	v
2.688	9.8	49.9	45.0	30.1	2.1	-44.0	0.0	1.0	39.0	34.1	74.0	54.0	-35.0	-19.9	v
	1			1		1									
	f	Measurema	ent Frequency	v		Amp	Preamp (	Jain				Δvg Lim	Average I	Field Streng	th I imit
	Dist	Distance to		y		1			t to 3 mete	are.				i Strength L	
	Read	Analyzer R				Avg			Strength @					. Average I	
l	AF	Antenna Fa	actor			Peak	Calculate	ed Peal	Field Stre	ngth		Pk Mar	Margin vs	. Peak Limi	It
										•					
	CL	Cable Loss				HPF	High Pas	s Filte	r	0			0		

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### RESTRICTED BANDEDGE (g NORMAL MODE, LOW CHANNEL, HORIZONTAL)

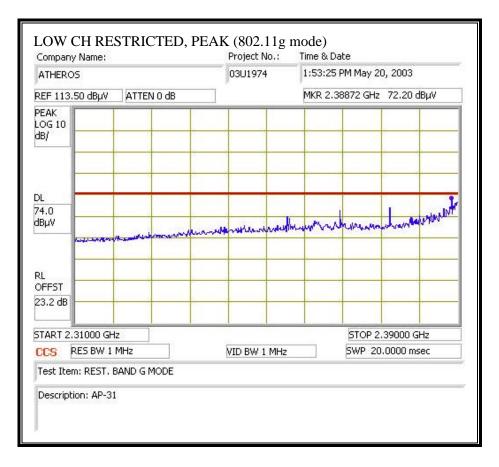


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Company Name: ATHEROS	03U1974	2:20:01	PM May 2	0, 2003
REF 110.20 dBµV ATTEN 0 (		MKR 2.	38976 GHZ	2 42,10 dBµV
PEAK LOG 10 dB/				
DL				
54.0 dBμV				
RL OFFST				
23.2 dB		-		
START 2.31000 GHz			STOP 2	1.39000 GHz
CCS RES BW 1 MHz	VID BW 10 Hz		SWP 24	4.00 sec
Test Item: REST, BAND G MOD			/14	

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### RESTRICTED BANDEDGE (g NORMAL MODE, LOW CHANNEL, VERTICAL)

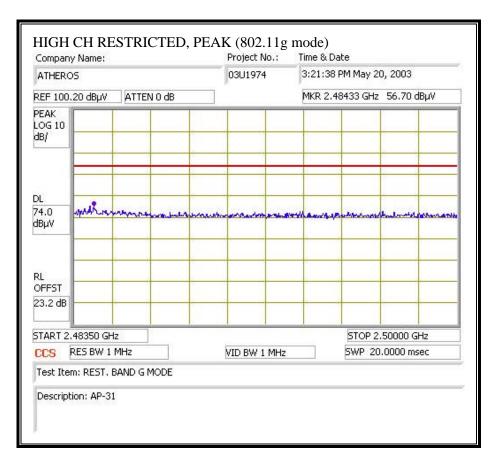


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Company Name: ATHEROS	03U1974	1.51.57	PM May 2	0 2003	
ATTERUS	0301974	1.01.07	Thindy 2	0, 2000	_
REF 113.50 dBµV ATTEN	0 dB	MKR 2.3	8952 GHz	53.20 dBµ\	1
PEAK LOG 10 dB/					
л. — — — — — — — — — — — — — — — — — — —					
54.0 ЗВµV					
					~
RL OFFST		_			
23.2 dB		-			
5TART 2.31000 GHz	1 1 1		5TOP 2	.39000 GHz	
CCS RES BW 1 MHz	VID BW 10 H	z	SWP 24	l.00 sec	
Test Item: REST, BAND G M	ODE				

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### RESTRICTED BANDEDGE (g NORMAL MODE, HIGH CHANNEL, HORIZONTAL)

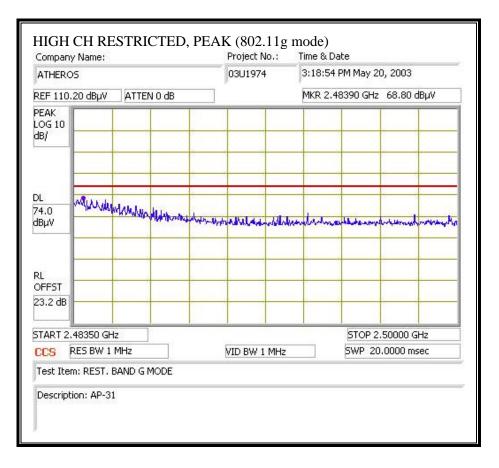


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Company	and the second second second			 Project No.: 03U1974	Time & D	PM May 2	0 2002
ATHERO	2			0301974	3:23:15	Finimay 2	0, 2003
REF 100.	20 dBµV	ATTE	N O dB		MKR 2.4	18350 GHz	42,50 dBµV
PEAK LOG 10 dB/							
DL 54.0							
dBµV	<b></b>						
					_		
RL OFFST				 + +	-	-	
23.2 dB							
START 2.	48350 G	Hz	i - i			STOP 2	.50000 GHz
CCS F	RES BW 1	l MHz		VID BW 10 Hz		SWP 5.	00 sec
Test Iter	n: REST.	BAND G	MODE				
Descripti							

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### RESTRICTED BANDEDGE (g NORMAL MODE, HIGH CHANNEL, VERTICAL)



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ATHEROS		 03U1974		3:18:00	PM May 2	0. 2003	
		 0001777					
REF 110.20 dBµV	TEN 0 dB			MKR 2.4	8350 GHz	50.80 c	dBμV
PEAK LOG 10 JB/							
ы.							
54.0 ΙΒμΥ							
		 	8 22	· · ·	<u>ia</u> 10		
RL DFFST	_						
23.2 dB							
5TART 2.48350 GHz		-			STOP 2	.50000 G	iHz
CCS RES BW 1 MHz		VID BW 1	0 Hz		SWP 5.	00 sec	
Test Item: REST, BAND	G MODE						

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### HARMONICS AND SPURIOUS EMISSIONS (g NORMAL MODE, LOW CHANNEL)

05/20/03			Measureme												
Complia	nce Ce	rtification S	Services, Mo	organ H	ill Op	en Field	Site								
Test Eng Project #		NEELESH R	AJ												
Company EUT Des EUT M/I	y: crip.:	ATHEROS													
Test Tar Mode Oj	get:	G MODE													
Test Equ	ipment:														
	Horn 1-1		Pre-amplife T86 Miteq 9		Iz		Spectrum A 3566B Analy			T87; ARA 1	Horn > 18 8-26GHz; S/				
Hi Free	juency Cab	les	I		_	י ו		Peak 1	Measureme	nts:	Average M	leasuremen	<u>ts:</u>		
<b>(2</b>	ft) [	✓ (2 ~ 3 ft)	☐ (4 ~ 6 ft)	✓ (12 ft)		J			Resolution E Video Bandv		1 MHz Reso 10Hz Video	lution Bandw Bandwidth	ridth		
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
f GHz	Dist feet	Read Pk dBuV	Read Avg. dBuV	AF dB/m	-	Amp dB	D Corr dB	HPF		Avg dBuV/m			Pk Mar dB	Avg Mar dB	Notes
GHz	feet	dBuV HARMONI	dBuV CS LOW CHA	dB/m	dB 2412	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
GHz 4.824	feet 9.8	dBuV HARMONI 54.1	dBuV CS LOW CHA 41.9	dB/m NNEL= 33.1	dB 2412 2.9	dB -45.6	dB 0.0	1.0	dBuV/m 45.5	dBuV/m 33.3	dBuV/m 74.0	dBuV/m 54.0	dB -28.5	dB -20.7	V
GHz 4.824 12.059	feet 9.8 9.8	dBuV HARMONI 54.1 45.7	dBuV CS LOW CHA 41.9 37.0	dB/m NNEL=2 33.1 39.3	dB 2412 2.9 5.1	dB -45.6 -45.4	dB 0.0 0.0	1.0 1.0	dBuV/m 45.5 45.7	dBuV/m 33.3 37.0	dBuV/m 74.0 74.0	dBuV/m 54.0 54.0	dB -28.5 -28.3	dB -20.7 -17.0	V V
GHz 4.824	feet 9.8	dBuV HARMONI 54.1	dBuV CS LOW CHA 41.9	dB/m NNEL= 33.1	dB 2412 2.9	dB -45.6	dB 0.0	1.0	dBuV/m 45.5	dBuV/m 33.3	dBuV/m 74.0	dBuV/m 54.0	dB -28.5	dB -20.7	V
GHz 4.824 12.059 4.824	feet 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0	dBuV CS LOW CHA 41.9 37.0 41.7	dB/m NNEL= 33.1 39.3 33.1	dB 2412 2.9 5.1 2.9	dB -45.6 -45.4 -45.6	dB 0.0 0.0 0.0	1.0 1.0 1.0	dBuV/m 45.5 45.7 45.4	dBuV/m 33.3 37.0 33.1	dBuV/m 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0	dB -28.5 -28.3 -28.6	dB -20.7 -17.0 -20.9	V V V V
GHz 4.824 12.059 4.824 12.059	feet 9.8 9.8 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0 46.6	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 spur	dB/m NNEL= 33.1 39.3 33.1 39.3 	dB 2412 2.9 5.1 2.9 5.1	dB -45.6 -45.4 -45.6 -45.4	dB 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	dBuV/m 45.5 45.7 45.4 46.6	dBuV/m 33.3 37.0 33.1 36.1	dBuV/m 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4	dB -20.7 -17.0 -20.9 -17.9	V V V H H
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0 46.6 54.0	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 	dB/m NNEL=3 33.1 39.3 33.1 39.3 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.4 -45.4	dB 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	dBuV/m 45.5 45.7 45.4 46.6 43.1	dBuV/m 33.3 37.0 33.1 36.1 38.1	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4 -30.9	dB -20.7 -17.0 -20.9 -17.9 -15.9	V V V H H
GHz 4.824 12.059 4.824 12.059	feet 9.8 9.8 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0 46.6	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 spur	dB/m NNEL= 33.1 39.3 33.1 39.3 	dB 2412 2.9 5.1 2.9 5.1	dB -45.6 -45.4 -45.6 -45.4	dB 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	dBuV/m 45.5 45.7 45.4 46.6	dBuV/m 33.3 37.0 33.1 36.1	dBuV/m 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4	dB -20.7 -17.0 -20.9 -17.9	V V V H H
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0 46.6 54.0	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 	dB/m NNEL=3 33.1 39.3 33.1 39.3 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.4 -45.4	dB 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	dBuV/m 45.5 45.7 45.4 46.6 43.1	dBuV/m 33.3 37.0 33.1 36.1 38.1	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4 -30.9	dB -20.7 -17.0 -20.9 -17.9 -15.9	V V V H H
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONIC 54.1 45.7 54.0 46.6 54.0 54.2 Measureme	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 	dB/m NNEL=: 33.1 39.3 33.1 39.3 30.0 30.0 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.6 -45.4 -44.0 -44.0 -44.0 -44.0	dB 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Preamp (	1.0 1.0 1.0 1.0 1.0 1.0 5ain	dBuV/m 45.5 45.7 45.4 46.6 43.1 43.3	dBuV/m 33.3 37.0 33.1 36.1 38.1 38.0	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4 -30.9 -30.7 -30.7	dB -20.7 -17.0 -20.9 -17.9 -15.9 -16.0	V V V H H V h
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONIC 54.1 45.7 54.0 46.6 54.0 54.2 Measureme Distance to	dBuV           ccs LOW CHA           41.9           37.0           41.7           36.1           spur           49.0           48.9           ent Frequency           Antenna	dB/m NNEL=: 33.1 39.3 33.1 39.3 30.0 30.0 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.6 -45.4 -44.0 -44.0 -44.0 -44.0 -44.0	dB           0.0         0.0           0.0         0.0           0.0         0.0           0.0         0.0           Preamp 0         Distance	1.0 1.0 1.0 1.0 1.0 1.0 5ain	dBuV/m 45.5 45.7 45.4 46.6 43.1 43.3 ct to 3 mete	dBuV/m 33.3 37.0 33.1 36.1 38.1 38.0 TS	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0 54.0 54.0 9 8 4.0 54.0 54.0 54.0	dB -28.5 -28.3 -28.6 -27.4 -30.9 -30.7 -30.9 -30.7 -30.9 -30.7	dB -20.7 -17.0 -20.9 -17.9 -15.9 -16.0 	V V V H H V h th Limit imit
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONI 54.1 45.7 54.0 46.6 54.0 54.2 Measureme Distance to Analyzer R	dBuV           dBuV           CS LOW CHA           41.9           37.0           41.7           36.1           spur           49.0           48.9           ent Frequenct           0 Antenna           teading	dB/m NNEL=: 33.1 39.3 33.1 39.3 30.0 30.0 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.4 -44.0 -44.0 -44.0 -44.0 -44.0 -44.0	dB 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.0 1.0 1.0 1.0 1.0 5 ain Correc Field S	dBuV/m           45.5           45.7           45.4           43.3           43.3           500           510	dBuV/m 33.3 37.0 33.1 36.1 38.1 38.0 	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 Avg Lim Pk Lim Avg Mar	dB -28.5 -28.3 -28.6 -27.4 -30.9 -30.7 -30.7 -30.7 -30.7 -30.7 -30.7	dB -20.7 -17.0 -20.9 -17.9 -15.9 -16.0 	V V V H H · · · · · · · · · · · · · · ·
GHz 4.824 12.059 4.824 12.059 2.668	feet 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	dBuV HARMONIC 54.1 45.7 54.0 46.6 54.0 54.2 Measureme Distance to	dBuV CS LOW CHA 41.9 37.0 41.7 36.1 	dB/m NNEL=: 33.1 39.3 33.1 39.3 30.0 30.0 30.0	dB 2412 2.9 5.1 2.9 5.1 2.9 5.1 2.0	dB -45.6 -45.4 -45.6 -45.4 -45.6 -45.4 -44.0 -44.0 -44.0 -44.0 -44.0	dB 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.0 1.0 1.0 1.0 1.0 5 ain Correct Field S	dBuV/m           45.5           45.7           45.4           45.4           46.6           43.1           43.3           ct to 3 mete           Strength @           c Field Stre	dBuV/m 33.3 37.0 33.1 36.1 38.1 38.0 	dBuV/m 74.0 74.0 74.0 74.0 74.0	dBuV/m 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0 Avg Lim Pk Lim Avg Mar	dB -28.5 -28.3 -28.6 -27.4 -30.9 -30.7 -30.7 -30.7 -30.7 -30.7 -30.7	dB -20.7 -17.0 -20.9 -17.9 -15.9 -16.0 	V V V H H · · · · · · · · · · · · · · ·

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### HARMONICS AND SPURIOUS EMISSIONS (g NORMAL MODE, MID CHANNEL)

	*** *	-													
05/20/03			Measureme												
Complia	ance Ce	rtification S	Services, Mo	rgan H	ill Op	en Field	Site								
Test Eng Project #		NEELESH R	AJ												
Company		ATHEROS													
EUT Des	crip.:														
EUT M/N															
Test Tar	get:														
Mode Op	per:	G MODE													
<u>Test Equ</u>	ipment:														
ЕМСО	Horn 1-	18GHz	Pre-amplife	er 1-26GF	łz	5	Spectrum A	nalyzer			Horn > 18	GHz			
T60; S/	N: 2238	@3m 🔻	T86 Miteq 9	24341	_	HP 8	3566B Anal	yzer		T87; ARA 1	8-26GHz; S/	N:1049	<b>-</b>		
		_	· ·												
Hi Freq	quency Cat	les				1		Peak I	Aeasureme	nts:	Average M	leasuremen	ts:		
□ (2	ft)	✓ (2 ~ 3 ft)	□ (4 ~ 6 ft)	🗹 (12 ft)					Resolution E			lution Bandw	ridth		
								1MHz	Video Bandw	/idth	10Hz Video	Bandwidth			
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar	Avg Mar	Notes
GHz			0			•								0	
GHZ	feet	dBuV	dBuV	dB/m	aB	dB	aB		a Bu v/m	a Buv/m				ав	
GHZ	feet	dBuV IARMONICS	dBuV S MIDDLE CH	dB/m	dB =2437	dB	dB		dBuV/m	dBuV/m	ави у/ш	иви у/ш	dB	dB	
4.875			dBuV S MIDDLE CH 42.3		1.	dB -45.6	0.0	1.0	45.1	33.7	74.0	54.0	-28.9	-20.3	V
4.875 7.305	9.8 9.8	IARMONICS 53.7 53.9	S MIDDLE CH 42.3 41.1	ANNEL 33.1 36.2	=2437 3.0 3.8	-45.6 -46.6	0.0	1.0	45.1 48.3	33.7 35.5	74.0 74.0	54.0 54.0	-28.9 -25.7	-20.3 -18.5	V
4.875 7.305 12.186	9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6	S MIDDLE CH 42.3 41.1 37.0	ANNEL 33.1 36.2 39.4	=2437 3.0 3.8 5.2	-45.6 -46.6 -45.6	0.0 0.0 0.0	1.0 1.0	45.1 48.3 49.5	33.7 35.5 36.9	74.0 74.0 74.0	54.0 54.0 54.0	-28.9 -25.7 -24.5	-20.3 -18.5 -17.1	V V
4.875 7.305 12.186 4.875	9.8 9.8 9.8 9.8 9.8	IARMONICS 53.7 53.9 49.6 53.1	S MIDDLE CH 42.3 41.1 37.0 41.0	ANNEL 33.1 36.2 39.4 33.1	=2437 3.0 3.8 5.2 3.0	-45.6 -46.6 -45.6 -45.6	0.0 0.0 0.0 0.0	1.0 1.0 1.0	45.1 48.3 49.5 44.5	33.7 35.5 36.9 32.4	74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5	-20.3 -18.5 -17.1 -21.6	V V H
4.875 7.305 12.186 4.875 7.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7	S MIDDLE CH 42.3 41.1 37.0 41.0 39.3	ANNEL 33.1 36.2 39.4 33.1 36.2	=2437 3.0 3.8 5.2 3.0 3.8	-45.6 -46.6 -45.6 -45.6 -46.6	0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1	33.7 35.5 36.9 32.4 33.7	74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9	-20.3 -18.5 -17.1 -21.6 -20.3	V V H H
4.875 7.305 12.186 4.875	9.8 9.8 9.8 9.8 9.8	IARMONICS 53.7 53.9 49.6 53.1	S MIDDLE CH 42.3 41.1 37.0 41.0	ANNEL 33.1 36.2 39.4 33.1	=2437 3.0 3.8 5.2 3.0	-45.6 -46.6 -45.6 -45.6	0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5	33.7 35.5 36.9 32.4	74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5	-20.3 -18.5 -17.1 -21.6	V V H H H
4.875 7.305 12.186 4.875 7.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7	S MIDDLE CH 42.3 41.1 37.0 41.0 39.3	ANNEL 33.1 36.2 39.4 33.1 36.2	=2437 3.0 3.8 5.2 3.0 3.8	-45.6 -46.6 -45.6 -45.6 -46.6	0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1	33.7 35.5 36.9 32.4 33.7	74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9	-20.3 -18.5 -17.1 -21.6 -20.3	V V H H
4.875 7.305 12.186 4.875 7.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7	S MIDDLE CH 42.3 41.1 37.0 41.0 39.3	ANNEL 33.1 36.2 39.4 33.1 36.2	=2437 3.0 3.8 5.2 3.0 3.8	-45.6 -46.6 -45.6 -45.6 -46.6	0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1	33.7 35.5 36.9 32.4 33.7	74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9	-20.3 -18.5 -17.1 -21.6 -20.3	V V H H H V
4.875 7.305 12.186 4.875 7.305 12.186 2.668	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4	5 MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 5 pur 48.5	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1 48.9 43.5	33.7 35.5 36.9 32.4 33.7 37.1 37.5	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5	V V H H V V V V
4.875 7.305 12.186 4.875 7.305 12.186	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONICS 53.7 53.9 49.6 53.1 49.7 49.0	S MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 spur	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2	-45.6 -46.6 -45.6 -45.6 -46.6 -45.6	0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1 48.9	33.7 35.5 36.9 32.4 33.7 37.1	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9	V V H H H V V V
4.875 7.305 12.186 4.875 7.305 12.186 2.668	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4	5 MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 5 pur 48.5	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1 48.9 43.5	33.7 35.5 36.9 32.4 33.7 37.1 37.5	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5	V V H H V V V V
4.875 7.305 12.186 4.875 7.305 12.186 2.668	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2	S MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 spur 48.5 47.2	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -46.6 -45.6 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.1 48.3 49.5 44.5 44.1 48.9 43.5	33.7 35.5 36.9 32.4 33.7 37.1 37.5	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7	V V H H V V V V
4.875 7.305 12.186 4.875 7.305 12.186 2.668	F           9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 Measuremed	MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 spur 48.5 47.2 ent Frequency	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Preamp (	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 5ain	45.1 48.3 49.5 44.5 44.1 48.9 43.5 43.5 42.3	33.7 35.5 36.9 32.4 33.7 37.1 37.5 36.3	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -29.9 -29.9 -25.1 -30.5 -31.7 -30.5 -31.7	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7 -i7.7	V H H V V V h h Limit
4.875 7.305 12.186 4.875 7.305 12.186 2.668	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2	MIDDLE CH 42.3 41.1 37.0 41.0 39.3 37.2 spur 48.5 47.2 ent Frequency	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Preamp (	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 5ain	45.1 48.3 49.5 44.5 44.1 48.9 43.5	33.7 35.5 36.9 32.4 33.7 37.1 37.5 36.3	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -29.9 -29.9 -25.1 -30.5 -31.7 -30.5 -31.7	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7	V H H V V V h h Limit
4.875 7.305 12.186 4.875 7.305 12.186 2.668	F           9.8	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 Measuremed	S         MIDDLE CH           42.3         41.1           37.0         41.1           37.0         39.3           37.2         37.2           spur         48.5           47.2         47.2	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 5ain	45.1 48.3 49.5 44.5 44.1 48.9 43.5 43.5 42.3	33.7 35.5 36.9 32.4 33.7 37.1 37.5 36.3	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7 Average F Peak Field	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7 -i7.7	V H H V V V h Limit imit
4.875 7.305 12.186 4.875 7.305 12.186 2.668	H           9.8           9.8           9.8           9.8           9.8           9.8           9.8           9.8           1           9.8 <tr< td=""><td>ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 Measurement Distance to</td><td>SMIDDLE CH           42.3           41.1           37.0           39.3           37.2           spur           48.5           47.2           o           Antenna           teading</td><td>ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0</td><td>=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0</td><td>-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 Amp D Corr</td><td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>1.0 1.0 1.0 1.0 1.0 1.0 1.0 5ain Correct Field S</td><td>45.1 48.3 49.5 44.5 44.1 48.9 43.5 42.3 tt to 3 mete</td><td>33.7 35.5 36.9 32.4 33.7 37.1 37.1 37.5 36.3</td><td>74.0 74.0 74.0 74.0 74.0 74.0 74.0</td><td>54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0</td><td>-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7 Average I Peak Field Margin vs</td><td>-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7 ?ield Strength Li</td><td>V V H H V V h h Limit imit</td></tr<>	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 Measurement Distance to	SMIDDLE CH           42.3           41.1           37.0           39.3           37.2           spur           48.5           47.2           o           Antenna           teading	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 Amp D Corr	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 5ain Correct Field S	45.1 48.3 49.5 44.5 44.1 48.9 43.5 42.3 tt to 3 mete	33.7 35.5 36.9 32.4 33.7 37.1 37.1 37.5 36.3	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7 Average I Peak Field Margin vs	-20.3 -18.5 -17.1 -21.6 -20.3 -16.9 -16.5 -17.7 ?ield Strength Li	V V H H V V h h Limit imit
4.875 7.305 12.186 4.875 7.305 12.186 2.668	H           9.8           9.8           9.8           9.8           9.8           9.8           9.8           9.8           1           9.8 <tr< td=""><td>ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 54.4 53.2 Measureme Distance to Analyzer R</td><td>SMIDDLE CH           42.3           41.1           37.0           41.0           39.3           37.2           spur           48.5           47.2           Artenna           teading           tcorr</td><td>ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0</td><td>=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0</td><td>-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 -44.0 -44.0</td><td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>1.0 1.0 1.0 1.0 1.0 1.0 1.0 5 ain Correct Field Sed Peak</td><td>45.1 48.3 49.5 44.5 44.1 48.9 43.5 42.3 tt to 3 mete Strength @ t Field Stree</td><td>33.7 35.5 36.9 32.4 33.7 37.1 37.1 37.5 36.3</td><td>74.0 74.0 74.0 74.0 74.0 74.0 74.0</td><td>54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0</td><td>-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7 Average I Peak Field Margin vs</td><td>-20.3 -18.5 -17.1 -21.6 -20.3 -16.5 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.1 -17.1 -16.5 -17.1 -17.1 -17.1 -16.5 -17.1 -17.1 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1</td><td>V V H H V V h h Limit imit</td></tr<>	ARMONICS 53.7 53.9 49.6 53.1 49.7 49.0 54.4 53.2 54.4 53.2 Measureme Distance to Analyzer R	SMIDDLE CH           42.3           41.1           37.0           41.0           39.3           37.2           spur           48.5           47.2           Artenna           teading           tcorr	ANNEL 33.1 36.2 39.4 33.1 36.2 39.4 30.0 30.0	=2437 3.0 3.8 5.2 3.0 3.8 5.2 5.2 2.0	-45.6 -46.6 -45.6 -45.6 -45.6 -45.6 -45.6 -44.0 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 5 ain Correct Field Sed Peak	45.1 48.3 49.5 44.5 44.1 48.9 43.5 42.3 tt to 3 mete Strength @ t Field Stree	33.7 35.5 36.9 32.4 33.7 37.1 37.1 37.5 36.3	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.9 -25.7 -24.5 -29.5 -29.9 -25.1 -30.5 -31.7 Average I Peak Field Margin vs	-20.3 -18.5 -17.1 -21.6 -20.3 -16.5 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.7 -16.5 -17.1 -17.1 -16.5 -17.1 -17.1 -17.1 -16.5 -17.1 -17.1 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1 -16.5 -17.1	V V H H V V h h Limit imit

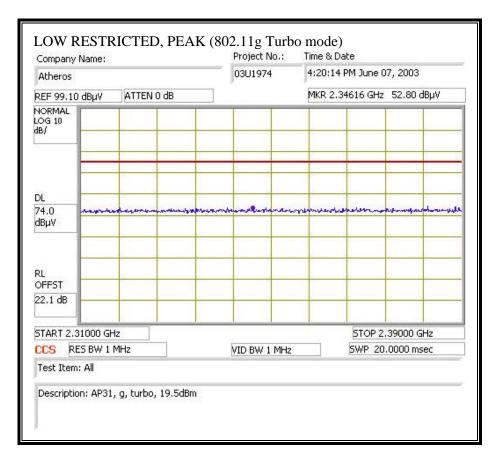
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### HARMONICS AND SPURIOUS EMISSIONS (g NORMAL MODE, HIGH CHANNEL)

		_													
05/20/03			Measureme												
Complia	ince Ce	rtification	Services, Mo	organ H	ill Op	en Field	Site								
Test Eng Project #		NEELESH R	AJ												
Company		ATHEROS													
EUT Des															
EUT M/															
Test Tar	get:														
Mode Or	er:	G MODE													
Test Equ	ipment:	<u>.</u>													
ЕМСО	Horn 1-	18GHz	Pre-amplife	er 1-26GH	Iz	5	Spectrum A	nalyzer			Horn > 18	GHz			
T(0, 5/	N: 2238	@2	T86 Miteq	24341		HP 8	566B Analy	yzer		T87: ARA 1	18-26GHz; S/	-			
100; 5/	N: 2236	wom -	100 Mileq.	24341	<b>_</b>										
🗖 Hi Freq	uency Cat	oles				1		Dool: 1	Measureme	nto	Avenage N	leasuremen	to.		
□ (2	ft)	✓ (2 ~ 3 ft)	(4 ~ 6 ft)	🗹 (12 ft)					Resolution E			lution Bandw			
- (-	,	(2 5 K)							Video Bandy		10Hz Video		luu		
L						1									
6	D! /	D IN	<b>D</b> 14	1.15	OT		D.C.	INDE			DI I		DI 16		<b>N</b> T /
f	Dist	Read Pk	Read Avg.	AF	CL	Amp	D Corr	HPF	Peak	Avg	Pk Lim	Avg Lim	Pk Mar		Notes
GHz	feet	dBuV	dBuV	dB/m	dB	dB	dB		dBuV/m	dBuV/m	dBuV/m	dBuV/m	dB	dB	
		HARMONI	S HIGH CH	NNEL=	2462			1.0							¥7
4.927	9.8	HARMONIO 53.9	CS HIGH CH4 41.8	NNEL=	2462 3.0	-45.7	0.0	1.0	45.3	33.2	74.0	54.0	-28.7	-20.8	V
4.927 7.380	9.8 9.8	HARMONIO 53.9 55.3	CS HIGH CH4 41.8 43.2	NNEL=2 33.2 36.3	2462 3.0 3.8	-45.7 -46.5	0.0	1.0	45.3 49.8	33.2 37.7	74.0 74.0	54.0 54.0	-28.7 -24.2	-20.8 -16.3	V
4.927	9.8	HARMONIO 53.9	CS HIGH CH4 41.8	NNEL=	2462 3.0	-45.7	0.0		45.3	33.2	74.0	54.0	-28.7	-20.8	
4.927 7.380 12.305 4.927 7.380	9.8 9.8 9.8	HARMONIO 53.9 55.3 48.3	CS HIGH CHA 41.8 43.2 37.8	NNEL= 33.2 36.3 39.4	2462 3.0 3.8 5.2	-45.7 -46.5 -45.7	0.0 0.0 0.0	1.0 1.0	45.3 49.8 48.1	33.2 37.7 37.6	74.0 74.0 74.0	54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3	-20.8 -16.3 -16.4	V V
4.927 7.380 12.305 4.927	9.8 9.8 9.8 9.8 9.8	HARMONIO 53.9 55.3 48.3 52.6	CS HIGH CHA 41.8 43.2 37.8 41.1	NNEL=3 33.2 36.3 39.4 33.2	2462 3.0 3.8 5.2 3.0	-45.7 -46.5 -45.7 -45.7	0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0	33.2 37.7 37.6 32.5	74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0	-20.8 -16.3 -16.4 -21.5	V V H H H
4.927 7.380 12.305 4.927 7.380	9.8 9.8 9.8 9.8 9.8 9.8	HARMONIO 53.9 55.3 48.3 52.6 51.2	CS HIGH CHA 41.8 43.2 37.8 41.1 40.3	ANNEL= 33.2 36.3 39.4 33.2 36.3	2462 3.0 3.8 5.2 3.0 3.8	-45.7 -46.5 -45.7 -45.7 -46.5	0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7	33.2 37.7 37.6 32.5 34.8	74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3	-20.8 -16.3 -16.4 -21.5 -19.2	V V H H H V
4.927 7.380 12.305 4.927 7.380	9.8 9.8 9.8 9.8 9.8 9.8	HARMONIO 53.9 55.3 48.3 52.6 51.2	CS HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9	ANNEL= 33.2 36.3 39.4 33.2 36.3	2462 3.0 3.8 5.2 3.0 3.8	-45.7 -46.5 -45.7 -45.7 -46.5	0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7	33.2 37.7 37.6 32.5 34.8	74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3	-20.8 -16.3 -16.4 -21.5 -19.2	V V H H H
4.927 7.380 12.305 4.927 7.380 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONI( 53.9 55.3 48.3 52.6 51.2 48.5	CS HIGH CH 41.8 43.2 37.8 41.1 40.3 37.9 spur	ANNEL=2 33.2 36.3 39.4 33.2 36.3 39.4	2462 3.0 3.8 5.2 3.0 3.8 5.2	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7	0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7 48.3	33.2 37.7 37.6 32.5 34.8 37.7	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3	V V H H H V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 48.5 55.3	CS HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9 spur 49.9	ANNEL=2 33.2 36.3 39.4 33.2 36.3 39.4 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -46.5 -45.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7 48.3 44.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONI( 53.9 55.3 48.3 52.6 51.2 48.5	CS HIGH CH 41.8 43.2 37.8 41.1 40.3 37.9 spur	ANNEL=2 33.2 36.3 39.4 33.2 36.3 39.4	2462 3.0 3.8 5.2 3.0 3.8 5.2	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7	0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7 48.3	33.2 37.7 37.6 32.5 34.8 37.7	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3	V V H H H V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 48.5 55.3	CS HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9 spur 49.9	ANNEL=2 33.2 36.3 39.4 33.2 36.3 39.4 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -46.5 -45.7	0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7 48.3 44.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONI( 53.9 55.3 48.3 52.6 51.2 48.5 55.3 54.3	S HIGH CH/ 41.8 43.2 37.8 41.1 40.3 37.9 7.9 5 9 49.9 48.1	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -46.5 -45.7 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	45.3 49.8 48.1 44.0 45.7 48.3 44.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8	V V H H V V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 55.3 54.3 Measureme	S HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9 5 9 9 49.9 48.1 48.1	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -45.7 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Preamp (	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 50	45.3 49.8 48.1 48.1 45.7 48.3 44.4 43.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0 37.2	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6 -29.6 -30.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8 Field Strengtl	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONI( 53.9 55.3 48.3 52.6 51.2 48.5 55.3 54.3	S HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9 5 9 9 49.9 48.1 48.1	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -45.7 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Preamp (	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 50	45.3 49.8 48.1 44.0 45.7 48.3 44.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0 37.2	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6 -29.6 -30.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 55.3 54.3 Measureme	28 HIGH CH/ 41.8 43.2 37.8 41.1 40.3 37.9 5pur 49.9 48.1 48.1 ent Frequenc o Antenna	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -45.7 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 5 Gain Correct	45.3 49.8 48.1 48.1 45.7 48.3 44.4 43.4	33.2 37.7 37.6 32.5 34.8 37.7 39.0 37.2	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6 -30.6 -30.6	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8 Field Strengtl	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 51.2 48.5 55.3 54.3 54.3 Measureme	28 HIGH CH/ 41.8 43.2 37.8 41.1 40.3 37.9 	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -45.7 -46.5 -45.7 -46.5 -45.7 -44.0 -44.0 -44.0 -44.0 D Corr	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 Gain Correc Field S	45.3 49.8 48.1 44.0 45.7 48.3 44.4 43.4 43.4 tt to 3 mete	33.2 37.7 37.6 32.5 34.8 37.7 39.0 37.2 39.0 37.2	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6 -30.6 Average I Peak Field Margin vs	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8 -ield Strength Li	V V H H V V V V
4.927 7.380 12.305 4.927 7.380 12.305 12.305	9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8 9.8	HARMONIC 53.9 55.3 48.3 52.6 51.2 48.5 48.5 55.3 54.3 54.3 Measurem Distance to Analyzer F	S HIGH CHA 41.8 43.2 37.8 41.1 40.3 37.9 	ANNEL=: 33.2 36.3 39.4 33.2 36.3 39.4 30.0 30.0 30.0	2462 3.0 3.8 5.2 3.0 3.8 5.2 	-45.7 -46.5 -45.7 -45.7 -46.5 -45.7 -46.5 -45.7 -44.0 -44.0 -44.0 -44.0 -44.0 -44.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0           1.0           1.0           1.0           1.0           1.0           1.0           1.0           5.0           6.0           1.0	45.3 49.8 48.1 44.0 45.7 48.3 44.4 43.4 44.4 43.4 5tro 3 mete Strength @ c Field Stre	33.2 37.7 37.6 32.5 34.8 37.7 39.0 37.2 39.0 37.2	74.0 74.0 74.0 74.0 74.0 74.0 74.0	54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	-28.7 -24.2 -25.9 -30.0 -28.3 -25.7 -29.6 -30.6 -30.6 Average I Peak Field Margin vs	-20.8 -16.3 -16.4 -21.5 -19.2 -16.3 -15.0 -16.8 -16.8 -16.8 -16.8	V V H H V V V V

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### LOW RESTRICTED BANDEDGE (g TURBO MODE, HORIZONTAL)

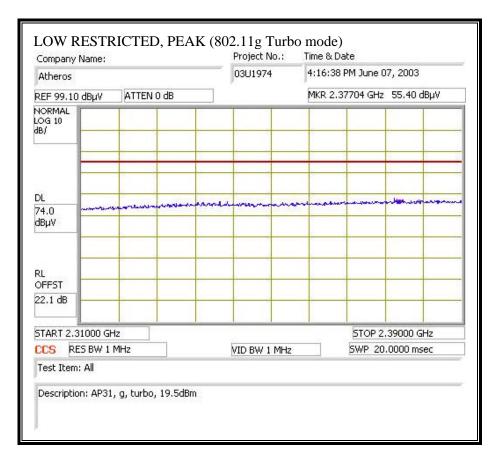


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Atheros		03U1974	4:21:59	9 PM June	07, 2003
REF 99.10 dBµV	ATTEN 0 dB		MKR 2.	38344 GH:	z 40.10 dBµ\
NORMAL LOG 10 JB/					
DL 📃				1	19 - 18 -
54.0 dBμV					
22.1 dB					
5TART 2.31000	GHz	- <u> </u>	-	STOP 2	2.39000 GHz
CCS RES BW	1 MHz	VID BW 10 Hz		SWP 2	4.00 sec
Test Item: All	10				

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### LOW RESTRICTED BANDEDGE (g TURBO MODE, VERTICAL)

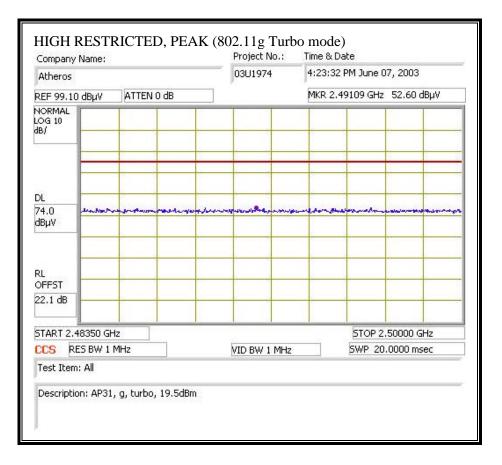


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ATHEROS			03U1974		12:18:5	3 PM May	28, 2003	1
/ REF 94.00 dBμ\	/ ATTEN 0 d	в	e .		MKR 2.3	39000 GHz	53.16	dBµV
POS PK LOG 10 dB/								
					-	-		
DL								5
dBµV					n.			
RL OFFST		-			-	-		
23.0 dB								
START 2.31000	GHz				-	STOP 2	.39000 0	ΞHz
CCS RES BW	/ 1 MHz		VID BW 1	0 Hz		SWP 24	1.00 sec	
Test Item: All								

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### HIGH RESTRICTED BANDEDGE (g TURBO MODE, HORIZONTAL)

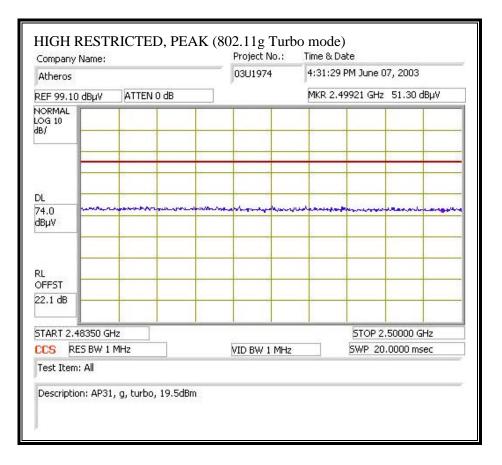


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	MKR 2.4	9921 GHz	40.40 dBj
		T	
			-
		STOP 2	.50000 GHz
VID BW 10 Hz		SWP 5.0	00 sec
	VID BW 10 Hz	VID BW 10 Hz	

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### HIGH RESTRICTED BANDEDGE (g TURBO MODE, VERTICAL)



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ATHEROS		03U1974	12:22:5	8 PM May	28, 2003
Manager and an and a second		_	MKD O /		
REF 94.00 dBµV	ATTEN 0 dB		MKR 2.4	18350 GHZ	48.15 dBµ\
POS PK .OG 10 JB/					
			-	-	
)L					
ВµУ					
				-	
23.0 dB					
5TART 2.48350 G	iHz			STOP 2	.50000 GHz
CCS RESIBW 1	MHz	VID BW 10 Hz		SWP 5.	00 sec
Test Item: All	15				

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### HARMONICS AND SPURIOUS EMISSIONS (g TURBO MODE)

05/20/03 High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
	: crip.: N: get: ber: ipment: Horn 1-	18GHz	Pre-amplife		łz	_	Spectrum A			T87- ARA 1	Horn > 18 8-26CHz: \$/				
Hi Freq	T60; S/N: 2238 @ 3m       T86 Miteq 924341       HP 8566B Analyzer       T87; ARA 18-26GHz; S/N:1049         HI Frequency Cables       Peak Measurements:       Average Measurements:         I MHz Resolution Bandwidth       1 MHz Resolution Bandwidth       1 MHz Resolution Bandwidth         I MHz Video Bandwidth       10 Hz Video Bandwidth       10 Hz Video Bandwidth														
f GHz	Dist	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	HPF	Peak	Avg dBuV/m	Pk Lim	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes
GHZ	feet		abuv DDLE CHAN!				aß		aBuv/m	dBuv/m	dBuv/m	aBuv/m	aß	đB	
4.875	9.8	53.1	41.5	NEL=243 33.1	3.0	-45.6	0.0	1.0	44.5	32.9	74.0	54.0	-29.5	-21.1	v
7.305	9.8	50.9	39.4	36.2	3.8	-46.6	0.0	1.0	45.3	33.8	74.0	54.0	-29.5	-21.1	v
12.186	9.8	48.3	37.0	39.4	5.2	-45.6	0.0	1.0	48.2	36.9	74.0	54.0	-25.8	-17.1	v
4.875	9.8	51.7	40.0	33.1	3.0	-45.6	0.0	1.0	43.1	31.4	74.0	54.0	-30.9	-22.6	Н
7.305	9.8	50.3	39.0	36.2	3.8	-46.6	0.0	1.0	44.7	33.4	74.0	54.0	-29.3	-20.6	Н
12.186	9.8	48.2	37.3	39.4	5.2	-45.6	0.0	1.0	48.1	37.2	74.0	54.0	-25.9	-16.8	Н
								1.0							V
								1.0							V
2.668	9.8	54.0	spur 47.3	30.0	2.0	-44.0	0.0	1.0	43.1	36.4	74.0	54.0	-30.9	-17.6	v
2.668	9.8	54.0	47.3	30.0	2.0	-44.0	0.0	1.0	43.1	36.3	74.0	54.0	-30.9	-17.0	h
2.000	7.0	54.1	47.2	50.0	2.0	-11.0	0.0	1.0	40.2	50.5	74.0	54.0	-50.0	-17.0	"
	f		ent Frequency	у		Amp	Preamp O							Field Strengt	
	Dist	Distance to				D Corr			ct to 3 mete					d Strength L	
	Read	Analyzer R	eading			Avg	Average	Field S	Strength @	3 m		Avg Mar	Margin vs	s. Average L	imit
	AF	Antenna Fa	actor			Peak	Calculate	ed Peal	c Field Stre	ngth		Pk Mar	Margin vs	s. Peak Limi	t
	CL	Cable Loss				HPF	High Pas			C			5		

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## SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

	FC	C, VCCI, ( , CSA, TU TEREY R( 08) 463-08	ation CISPR, CE V, BSMI, I DAD, SAN 385 F	FAX: (408) 4	NZ AP 95037-9001 463-0888		Rep Date& 1 Test 1		03U1974 030514B 05/14/03 Chin Pan	1 9:41 AM	- - -
	EUT Test Cor	Descri		802.11b/ EUT/Net	Communic /g w/Turbo :gear Hub	,					
	T Mode oj	Type of f Opera		FCC Cla Tx	ss B						
											1
									<<	Main Sheet	
Freq.	Reading	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	<-< Az	Main Sheet Height	Mark
Freq. (MHz)	Reading (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)		Margin (dB)	Pol (H/V)			Mark (P/Q/A)
(MHz) 250.00	(dBuV) 53.40	(dB) 12.51	(dB) 3.85	(dB) 27.96	(dBuV/m) 41.80	FCC_B 46.00	(dB) -4.20	(H/V) 3mV	Az (Deg) 0.00	Height (Meter) 1.50	(P/Q/A) P
(MHz) 250.00 900.00	(dBuV) 53.40 40.40	(dB) 12.51 20.40	(dB) 3.85 7.83	(dB) 27.96 28.38	(dBuV/m) 41.80 40.25	FCC_B 46.00 46.00	(dB) -4.20 -5.75	(H/V) 3mV 3mV	Az (Deg) 0.00 0.00	Height (Meter) 1.50 1.00	(P/Q/A) P P
(MHz) 250.00 900.00 850.00	(dBuV) 53.40 40.40 40.70	(dB) 12.51 20.40 20.07	(dB) 3.85 7.83 7.57	(dB) 27.96 28.38 28.45	(dBuV/m) 41.80 40.25 39.89	FCC_B 46.00 46.00 46.00	(dB) -4.20 -5.75 -6.11	(H/V) 3mV 3mV 3mV	Az (Deg) 0.00 0.00 0.00	Height (Meter) 1.50 1.00 1.50	(P/Q/A) P P P
(MHz) 250.00 900.00 850.00 400.00	(dBuV) 53.40 40.40 40.70 48.00	(dB) 12.51 20.40 20.07 15.42	(dB) 3.85 7.83 7.57 4.96	(dB) 27.96 28.38 28.45 28.53	(dBuV/m) 41.80 40.25 39.89 39.85	FCC_B 46.00 46.00 46.00 46.00	(dB) -4.20 -5.75 -6.11 -6.15	(H/V) 3mV 3mV 3mV 3mV	Az (Deg) 0.00 0.00 0.00 0.00	Height (Meter) 1.50 1.00 1.50 1.00	(P/Q/A) P P P P
(MHz) 250.00 900.00 850.00	(dBuV) 53.40 40.40 40.70	(dB) 12.51 20.40 20.07	(dB) 3.85 7.83 7.57	(dB) 27.96 28.38 28.45	(dBuV/m) 41.80 40.25 39.89	FCC_B 46.00 46.00 46.00	(dB) -4.20 -5.75 -6.11	(H/V) 3mV 3mV 3mV	Az (Deg) 0.00 0.00 0.00	Height (Meter) 1.50 1.00 1.50	(P/Q/A) P P P

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## 7.7. POWERLINE CONDUCTED EMISSIONS

## <u>LIMIT</u>

\$15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted Limit (dBuV)			
	Quasi-peak	Average		
0.15-0.5	66 to 56	56 to 46		
0.5-5	56	46		
5-30	60	50		

Decreases with the logarithm of the frequency.

## TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

## **RESULTS**

No non-compliance noted:

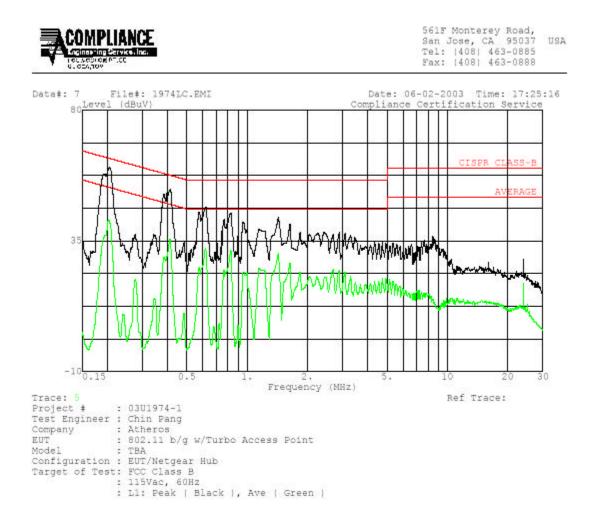
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### **<u>6 WORST EMISSIONS</u>**

CONDUCTED EMISSIONS DATA (115VAC 60Hz)											
Freq.		Reading		Closs	Limit	EN_B	Margin		Remark		
(MHz)	PK (dBuV) QP (dBuV) AV (d			( <b>dB</b> )	QP	AV	QP (dB)	AV (dB)	L1 / L2		
0.21	60.28		41.92	0.00	64.43	54.43	-4.15	-12.51	L1		
0.41	52.68		35.61	0.00	58.49	48.49	-5.81	-12.88	L1		
0.62	46.58		33.04	0.00	56.00	46.00	-9.42	-12.96	L1		
0.21	56.20		48.36	0.00	64.43	54.43	-8.23	-6.07	L2		
0.41	52.82		45.13	0.00	58.57	48.57	-5.75	-3.44	L2		
1.41	49.39		37.19	0.00	56.00	46.00	-6.61	-8.81	L2		
6 Worst I	Data										

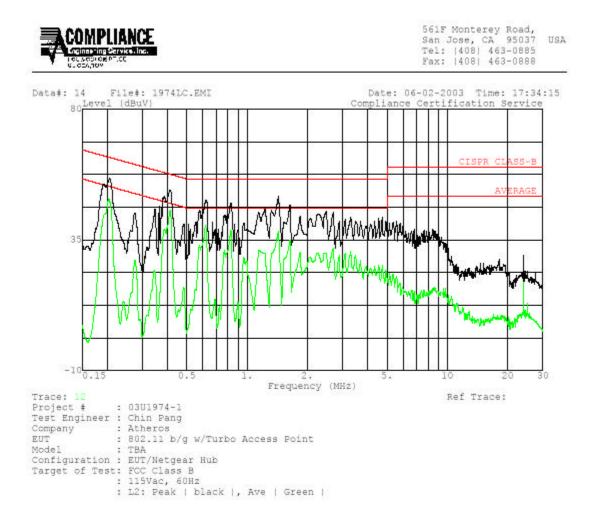
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#### LINE 1 (LINE) RESULTS



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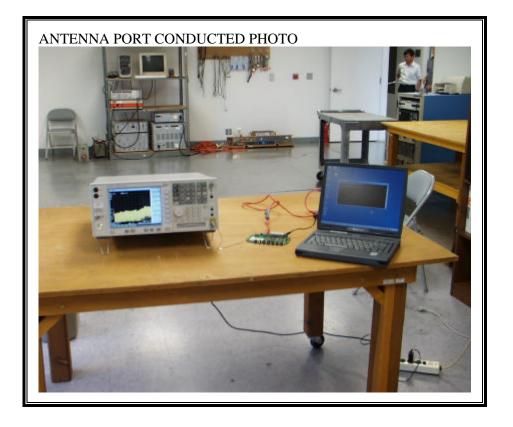
### LINE 2 (NEUTRAL) RESULTS



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# 8. SETUP PHOTOS

### ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP



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### **RADIATED RF MEASUREMENT SETUP**

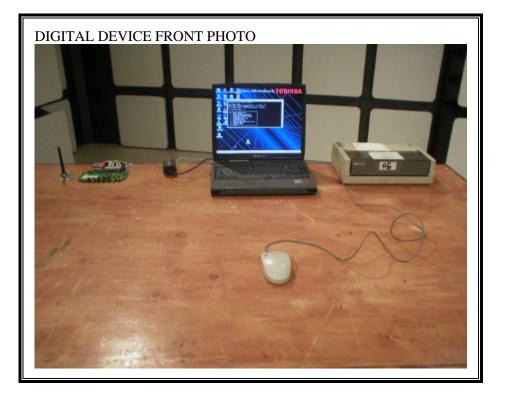


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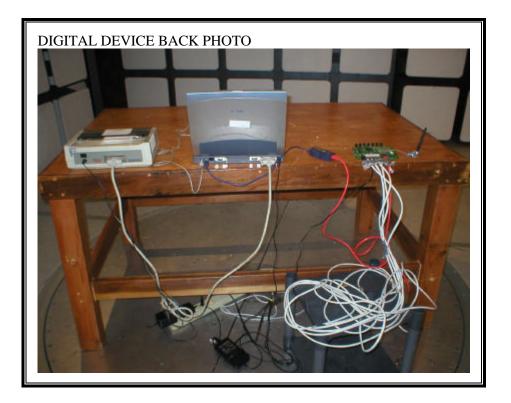


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### **DIGITAL DEVICE MEASUREMENT SETUP**

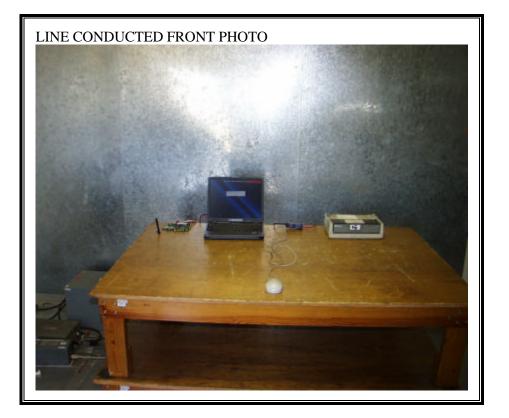


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### POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP



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**END OF REPORT** 

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