Turbo-Mode Band Edge Measurements (Revised)

The attached data represents revised measurement data for the Atheros application under FCC ID PPD-AR5BCB-00012. The data originally submitted for the band edge measurement data is incorrect as it used the field strength data for the normal mode fundamental signals and not the fundamental field strength data for the turbo mode

This data should be used to replace pages 21 - 23 of the pdf file *Atheros Radio Report Test log.PDF*.

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EMC Test Data

Client:	Atheros	Job Number:	J44394
Model:	AR5BCB-00012	T-Log Number:	T45028
		Proj Eng:	Mark Briggs
Contact:	Eric Dukatz		
Emissions Spec:	FCC Part 15 Subpart E	Class:	N/A
Immunity Spec:	N/A	Environment:	-

EMC Test Data

For The

Atheros

Model

AR5BCB-00012

CEII:	ott				_	
CEIII	JU			EMC Test	Dai	
Client: Atheros			Job Number: J44394			
Model: AR5BCB-	00012		T-Log Number: T45028			
			Proj Eng: Mark Briggs			
Contact: Eric Duka	tz					
Spec: FCC Part	15 Subpart E			Class: N/A		
	FCC Part	15 Subpart I	E Tests	i		
Test Specifics						
Objective:	The objective of this test session specification listed above.	is to perform final qua	lification tes	ting of the EUT with respec	t to the	
Date of Test:	10/12/2001	Config. Used	:			
Test Engineer:	Jmartinez	Config Change	:			
Test Location:	SVOATS# 4	Host Unit Voltage	e 120Vac, 6	0Hz		
For radiated emiss When measuring th spectrum analyzer measurements are Ambient Condition	ions testing the measurement and ne conducted emissions from the or power meter via a suitable atte corrected to allow for the externa ons: Temperature: 2 Red. Humidity: 6	EUT's antenna port, th EUT's antenna port, th enuator to prevent over al attenuators and cable 24°C	eters from the antenna ploading the es used.	e EUT unless stated other ort of the EUT was connec measurement system. All	wise. ted to tl	
Summary of Res	ults					
Run #	Test Performed	Limit	Result	Comments		
1	RE, 1000 - 40000 MHz - Spurious Emissions	15.407(b)(6)	Pass	-3.62dB @ 5350 MHz		
Modifications Ma No modifications w Deviations From No deviations were	ade During Testing: ere made to the EUT during testin The Standard e made from the requirements of t	ng he standard.				

-		VIEW							
6ł	Ellio	ott						EM	IC Test Data
Client:	Atheros						J	b Number:	J44394
Model:	lel: AR5BCB-00012					T-Lo	a Number:	T45028	
							Proi Ena:	Mark Bridgs	
Contact:	Fric Duka	17						··-j· 5	
Snec	FCC Part	15 Subr	art F					Class [.]	Ν/Δ
Run #1: R	adiated S	purious	Emissions,	5.15 - 5.35	GHz Band	Edge Measu	irements	Ulussi	
	Limit fo	r emissio	ons in restric	ted bands:	54dBuV/n	n (Average)	74dBuV/	m (Peak)	1
Limit	for emissi	ons outs	ide of restric	ted bands:	EIRP < -2	7dBm/MHz	(68dB	uV/m)	
Fundamental signal measurements (to calculate the band edge field strengths):Power= 13.3 dBm @ 5290 MHz, 13.8 dBm @ 5210 MHz.								3m @ 5290 MHz, 13.8	
Frequency		P01	15.2097	15.407	Detector	Azimutn	Height	Comments	
MHZ	αθμν/m	v/n	Limit	Margin	PK/QP/AVg	degrees	meters	יסע עוסס	\\/ 1 \\/ →
5210.0	104.δ	V	-	-	PK	234	1.5 1.5	RRM = AR	W = 1 MHZ
5210.0	94.9	V	-	-	AVg	234	1.5	RRM = IM	HZ, VBW = IUHZ
5210.0	95.0	n	-	-	PK	264	1.0	RBM = AR	
5210.0	85.1	n	-	-	AVg	264	1.0	RRM = IM	HZ, VBW = I0HZ
5290.0	104.4	V	-	-	PK	215	1.5	RBM = AR	
5290.0	93.0	V	-	-	AVg	215	1.5	RBM = IM	HZ, VBW = IUHZ
5290.0	99.0 00 0	h	-	-		102	1.0	RDW = VD DRW = 1M	
2290.01 88.81 N AVG 162 1.61KBW = 1MHZ, VBW = 10HZ									
Frequency	l evel	Pol	15 209 /	15 407	Detector	Azimuth	Height	Comments	
MHz	dBuV/m	v/h	L imit	Margin	Pk/OP/Avg	degrees	meters	oominients	
5150.0	69.1	v	74.0	-4.9	Pk	uogrooo	motors	Note 1	
5150.0	50.3	V	54.0	-3.7	Ava			Note 1	
5350.0	68.9	V	74.0	-5.1	Pk			Note 2	
5350.0	50.4	٧	54.0	-3.6	Avg			Note 2	
			<u> </u>	J					
EUT operating on the lowest channel available in the 5.15 - 5.25 MHz band. Signal level calculated using the relative measurements in run #5 (-35.7dBc for peak and -44.6dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level. See graphs on following page.									
EUT operating on highest channel available in the 5.25 - 5.35 MHz band. Signal level calculated using the relative measurements in run #5 (-35.5 dBc for peak and -42.6dBc for average) applied to the highest peak and average field strength measurements of the fundamental signal level. See graphs on following page.									



Antenna Conducted and Radiated Emissions, 12-Oct-01 08:59 PM Engineer: jmartinez

Manufacturer	Description	Model #	Assett #	Cal interval	Last Calibrated	Cal Due
Hewlett Packard	Microwave EMI test system (SA40, 30Hz - 40GHz)	84125C	1149	12	2/5/2001	2/5/2002
Hewlett Packard	Spectrum Analyzer, 9KHz - 22GHz	8593EM	1319	12	5/31/2001	5/31/2002