ARC Wireless LLC			Test Number:	110826		
	: ARCFlex 802.11bgn Module					
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
		n compared to an isotropic r	adiator.			
	S = power de	nsity in mW/cm^2				
					Antenna Gain (dBi)	
		Output Power		dBd + 2.17 = dBi	dBi to dBd	2.
Tx Frequency (MHz)	2437	Maximum (Watts)	0.1390		Antenna Gain (dBd)	2.8
Cable Loss (dB)	0.0	(dBm)	21.43	Ant	enna minus cable (dBi)	5.0
	ted ERP (mw)			EIRP = Po(dBM) + Ga	ain (dB)	
Calculated EIRP (mw)		439.542			Radiated (EIRP) dBm	26.43
				ERP = EIRP - 2.17 dB		
Occupa	tional Limit	Power density (S)			Radiated (ERP) dBm	24.26
5 00000	mW/cm <sup>2</sup>	EIRP				
50.00000		= mW/cm^2				
		4 p r^2				
	Public Limit	r (cm) EIRP (mW)				
1.00000	mW/cm <sup>2</sup>					
10.00000	$W/m^2$					
		FCC radio frequenc	y radiation exposure li	mits per 1.1310		
		Frequency (MHz)	Occupational Limit	Public Limit		
		300-1,500	f/300	f/1500		
		1,500-10,000	5	1		
		1,500 10,000		•		
		FCC radio frequenc	y radiation exposure li	mits ner 1 1310		
		rec iado irequeire	•	Public Limit @ Tx		
			Occupational Limit	· .		
		Frequency (MHz)	@ Tx Freq	Freq (mW/cm <sup>2</sup> )		
		300-1,500 (mW/cm2)	8.123333333	1.624666667		
		300-1,500 (W/m2)	81.23333333	16.24666667		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (W/m2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
			Distance			
milliwatts	mW/cm <sup>2</sup>	W/m <sup>2</sup>	cm	meter	inches	Feet
439.542	0.00350	0.03498	100.00	1.00	39.37	0.08
439.542	0.00432	0.04318	90.00	0.90	35.43	0.08
439.542	0.00547	0.05465	80.00	0.80	31.50	0.07
439.542	0.00622	0.06218	75.00	0.75	29.53	0.06
439.542	0.00714	0.07138	70.00	0.70	27.56	0.06
439.542	0.01399	0.13991	50.00	0.50	19.69	0.04
439.542	0.02186	0.21861	40.00	0.40	15.75	0.03
439.542	0.03886	0.38864	30.00	0.30	11.81	0.03
439.542	0.08744	0.87444	20.00	0.20	7.87	0.02
439.542	0.09689	0.96891	19.00	0.19	7.48	0.02
439.542	0.10796	1.07956	18.00	0.18	7.09	0.02
439.542	0.15546	1.55456	15.00	0.15	5.91	0.01
439.542	0.34978	3.49776	10.00	0.10	3.94	0.01
439.542	0.43182	4.31822	9.00	0.09	3.54	0.01
439.542	0.48412	4.84119	8.50	0.09	3.35	0.01
439.542	0.50773	5.07731	8.30	0.08	3.27	0.01
439.542	0.54653	5.46525	8.00	0.080	3.15	0.01
				0	D 4 0 7 1 2 1 1	Die Trans
			Occupational Limit	Occupational Limit	Public Limit minimum	
			minimum Distance	minimum Distance	distance (meters)	distance (cm / inches
		Frequency (MHz)	(meters)	(cm / inches)		
		300-1,500	N/A	N/A	N/A	N/A
		1,500-10,000				18 / 7.1

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Revision 1

ARC Wireless LLC

Model: ARCFlex 802.11bgn Module

Test #: 110826

Test to: CFR47 (15.247) File: RFExp ARCFlex SN: ENG1

FCC ID#: Z2B-AFM1 Date: September 27, 2011

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