LigoWave	I Dan con	A CA C DDO	Test Number:	120222		
	LigoPTP 5-N					
MPE Calculator	MPE uses EIRP for calculation. EIRP is based on TX power added to the antenna gain in dBi.					
	_	compared to an isotropic ra	diator.			
	S = power der	nsity in mW/cm^2				
					Antenna Gain (dBi)	3.
		Output Power		dBd + 2.17 = dBi	dBi to dBd	
Tx Frequency (MHz)	5785	Maximum (Watts)	0.6012		Antenna Gain (dBd)	30.8
Cable Loss (dB)	0.0	(dBm)	27.79	An	tenna minus cable (dBi)	33.0
Caland	ated ERP (mw)	727770 005		EIRP = Po(dBM) + Gai	- (4D)	
	ted ERP (mw)			EIRF - FO(dbNI) + Gai	Radiated (EIRP) dBm	60.79
Calcula	ted Elici (lliw)	1177477.303		ERP = EIRP - 2.17 dB	Radiated (Eff.) dbiii	00.79
Occum	ational Limit	Power density (S)		ERI - ERI - 2.17 db	Radiated (ERP) dBm	58.62
		EIRP			readiated (Ltd.) dbiii	50.02
	mW/cm ²	= mW/cm^2				
50.00000		4 p r^2				
	l Public Limit	r (cm) EIRP (mW)				
1.00000	mW/cm ²					
10.00000	W/m^2					
		FCC radio frequen	cy 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		
		-,		-		
		FCC radio frequen	cy radiation exposure li	mits per 1.1310		
		·	Occupational Limit @	Public Limit @ Tx		
		Frequency (MHz)	Tx Freq	Freq (mW/cm ²)		
		300-1,500 (mW/cm2)	19.28333333	3.856666667		
		300-1,500 (M/m2)	192.8333333	38.56666667		
		1,500-10,000 (mW/cm2)	5	1		
		1,500-10,000 (M/m2)	50	10		
EIRP	S	S	Distance	Distance	Distance	Distance
milliwatts	mW/cm ²	W/m^2	cm	meter	inches	Feet
1199499.303	0.38181	3.81812	500.00	5.00	196.85	0.42
1199499.303	0.59658	5.96582	400.00	4.00	157.48	0.33
1199499.303	0.99327	9.93269	310.00	3.10	122.05	0.26
1199499.303	1.06059	10.60590	300.00	3.00	118.11	0.25
						0.23
1199499.303	1.26219	12.62190	275.00	2.75	108.27	0.23
1199499.303 1199499.303	1.26219 1.52725	12.62190 15.27250	275.00 250.00	2.75 2.50	108.27 98.43	0.21
1199499.303	1.52725	15.27250	250.00	2.50	98.43	0.21
1199499.303 1199499.303	1.52725 1.88549	15.27250 18.85494	250.00 225.00	2.50 2.25	98.43 88.58	0.21 0.19
1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633	15.27250 18.85494 23.86328	250.00 225.00 200.00	2.50 2.25 2.00	98.43 88.58 78.74	0.21 0.19 0.17
1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684	15.27250 18.85494 23.86328 31.16837	250.00 225.00 200.00 175.00	2.50 2.25 2.00 1.75	98.43 88.58 78.74 68.90	0.21 0.19 0.17 0.15
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236	15.27250 18.85494 23.86328 31.16837 42.42361	250.00 225.00 200.00 175.00 150.00	2.50 2.25 2.00 1.75 1.50	98.43 88.58 78.74 68.90 59.06	0.21 0.19 0.17 0.15 0.13
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057	250.00 225.00 200.00 175.00 150.00 140.00	2.50 2.25 2.00 1.75 1.50 1.40	98.43 88.58 78.74 68.90 59.06 55.12	0.21 0.19 0.17 0.15 0.13 0.12
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241	250.00 225.00 200.00 175.00 150.00 140.00	2.50 2.25 2.00 1.75 1.50 1.40	98.43 88.58 78.74 68.90 59.06 55.12 54.33	0.21 0.19 0.17 0.15 0.13 0.12 0.12
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900 9.54531	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000 95.45312	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00 100.00 90.00	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25 1.00 0.900	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21 39.37	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10 0.08
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900 9.54531	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000 95.45312	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00 100.00 90.00 Occupational Limit	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25 1.00 0.900 Occupational Limit	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21 39.37 35.43	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10 0.08 0.08
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900 9.54531	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000 95.45312	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00 100.00 90.00	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25 1.00 0.900	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21 39.37 35.43	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10 0.08 0.08
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900 9.54531	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000 95.45312 117.84336	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00 100.00 90.00 Occupational Limit	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25 1.00 0.900 Occupational Limit	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21 39.37 35.43	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10 0.08
1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303 1199499.303	1.52725 1.88549 2.38633 3.11684 4.24236 4.87006 5.01224 5.23748 5.64811 6.10900 9.54531	15.27250 18.85494 23.86328 31.16837 42.42361 48.70057 50.12241 52.37483 56.48114 61.09000 95.45312	250.00 225.00 200.00 175.00 150.00 140.00 138.00 135.00 130.00 125.00 100.00 90.00 Occupational Limit minimum Distance	2.50 2.25 2.00 1.75 1.50 1.40 1.38 1.35 1.30 1.25 1.00 0.900 Occupational Limit minimum Distance	98.43 88.58 78.74 68.90 59.06 55.12 54.33 53.15 51.18 49.21 39.37 35.43	0.21 0.19 0.17 0.15 0.13 0.12 0.12 0.11 0.11 0.10 0.08 0.08

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LigoWave LLC. Model: LigoPTP 5-N MiMo PRO

Test #: 120222

Test to: FCC Parts 2, 15C, RSS-210

File: RFExp PTP5NMP

FCC ID: V2V-PTP5NMP IC: 7607A- PTP5NMP SN: 4051170000006 Date: March 6, 2012 Page 1 of 1