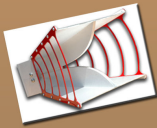
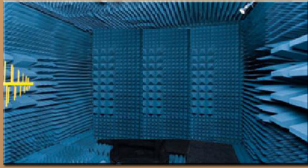


## Specialty Testing Services

ZP Wireless specializes in many FCC rules and compliance testing required for certification and licensing. Calibrated 3m anechoic chamber used in conjunction with automated test systems enables quick turn, low cost compliance screening. If you are having trouble achieving compliance, ZP Wireless can help with Noise Reduction solutions.



Frequency (MHz)	Measured (dBm)	Corrected (dBm)	Priority (dBm)	Antenna Height (m)	Total Position (m)	Level (dBm)	Margin (dB)	Restriction (dBm)	Dist. Factor
900	19.76	19.76	24.7	1.6	1.6	-20.00	34.76	N	20.10
	20.18	20.18	25.1	1.7	1.7	-20.00	35.18	N	20.10
Approved frequencies									
1000.000000	19.26	19.26	24.2	1.6	1.6	-20.00	34.26	N	19.74
	19.74	19.74	24.7	1.6	1.6	-20.00	34.74	N	19.74
2100.000000	20.24	20.24	25.2	1.6	1.6	-20.00	35.24	N	20.10
	20.72	20.72	25.7	1.6	1.6	-20.00	35.72	N	20.10
3000.000000	18.74	18.74	23.7	1.6	1.6	-20.00	33.74	V	19.80
	19.22	19.22	24.2	1.6	1.6	-20.00	34.22	V	19.80
4010.000000	19.74	19.74	24.7	1.6	1.6	-20.00	34.74	V	20.10
	20.22	20.22	25.2	1.6	1.6	-20.00	35.22	V	20.10
5410.000000	20.74	20.74	25.7	1.6	1.6	-20.00	35.74	N	20.10
	21.22	21.22	26.2	1.6	1.6	-20.00	36.22	N	20.10
6114.000000	47.76	47.76	52.7	1.6	1.6	-20.00	67.76	N	12.10
	48.24	48.24	53.2	1.6	1.6	-20.00	68.24	N	12.10
7116.000000	48.74	48.74	53.7	1.6	1.6	-20.00	68.74	V	12.10
	49.22	49.22	54.2	1.6	1.6	-20.00	69.22	V	12.10
8118.000000	49.74	49.74	54.7	1.6	1.6	-20.00	69.74	V	12.10
	50.22	50.22	55.2	1.6	1.6	-20.00	70.22	V	12.10
9010.000000	49.74	49.74	54.7	1.6	1.6	-20.00	69.74	V	12.10
	50.22	50.22	55.2	1.6	1.6	-20.00	70.22	V	12.10

*"ZP Wireless is your one stop for design, optimization, prototyping and production solutions."*

## Additional Services Available

- Antenna
  - Design
  - Modeling
  - Optimization
  - Prototyping
  - Production Solutions
- Filter Design
- Connector Design
- Impedance Matching

ZP Wireless  
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Montgomery, AL 36123

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[www.ZPwireless.com](http://www.ZPwireless.com)



## PCB Antenna Design

## PCB Layout

## Noise Reduction

## Automated Test Systems

## Specialty Testing



## PCB Layout Design

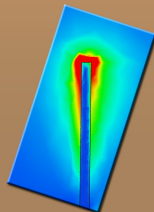
ZP Wireless specializes in low noise RF PCB design available through many industry standard CAD platforms.

RF and Microwave structures incorporated into PCB designs:

- Antenna
- Impedance Transformer
- Harmonic Trap
- Microstrip & Coplanar Waveguide

## PCB Antenna Design

- Balanced Dipole
- Short Monopole
- Loop & Semi-Loop
- Meandering Line
- Slot
- Patch
- Inverted F



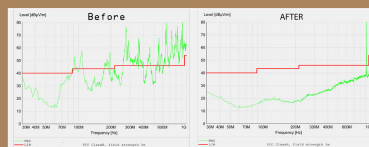
Specialty Antenna:

- Multi-band
- Wideband
- Circular Polarization
- Dual Polarization Diversity
- Switched Array

## Noise Reduction

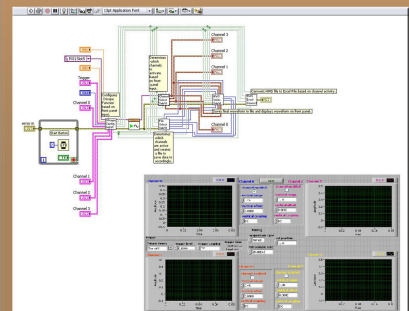


Digital, RFI or other noise sources can degrade system performance. ZP Wireless can eliminate undesirable interference through proper RF shield designs, improved grounding techniques, optimum noise and conjugant transistor matching, digital clock conditioning, EMI absorbing material placement, power supply decoupling and filtering.



## Automated Test System Solutions

ZP Wireless offers automated testing solutions to improve productivity and efficiently. Automation extends the test cycle beyond traditional working hours while increasing testing parameter strength. This includes the development of custom programs to process data and perform any number of customer defined tasks.



[www.ZPwireless.com](http://www.ZPwireless.com)