

Ka-Band NanoMPM*

**A key technology in the high-performance,
multimode, exploratory radar upgrade
program**

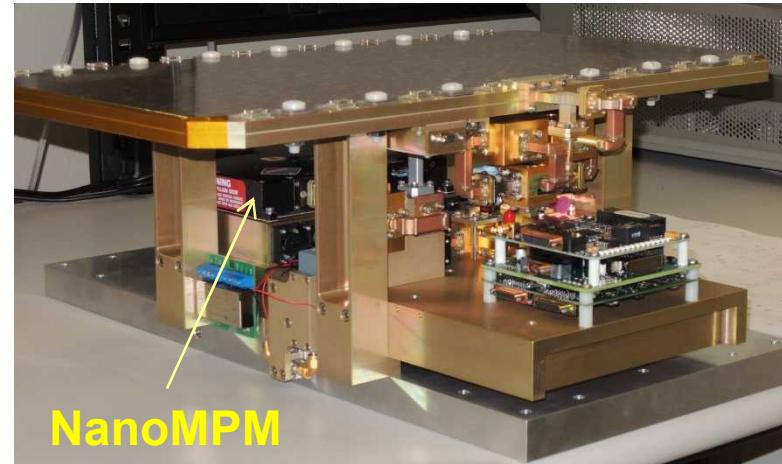
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Near-term Application

- Highly integrated RF front end assembly for Ka-Band airborne radar test platform.
- Ka-Band radar is part of Sandia's FARAD* effort to provide multimode, multi-band SAR/GMTI data collection capability for advanced and exploratory RF remote sensing activities.

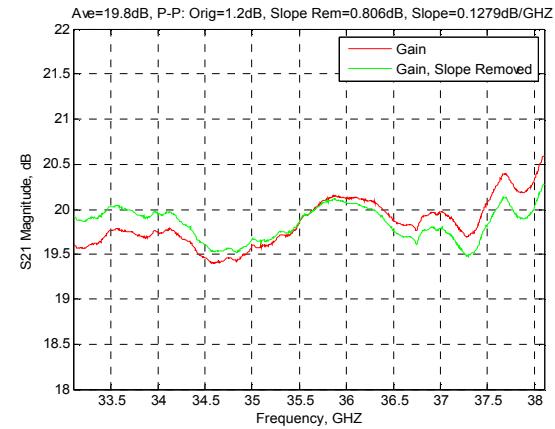
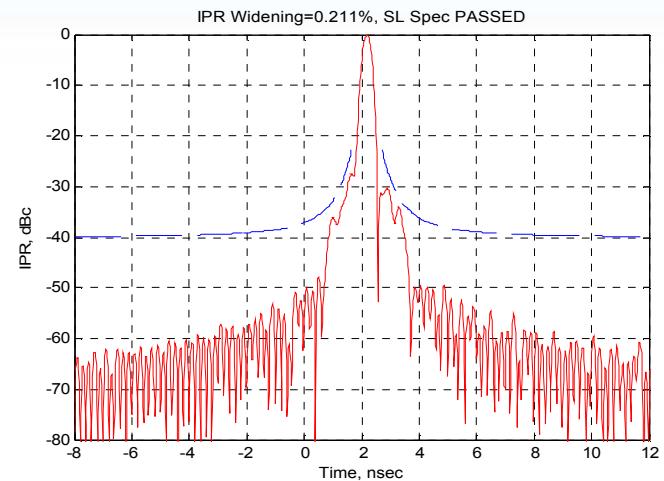
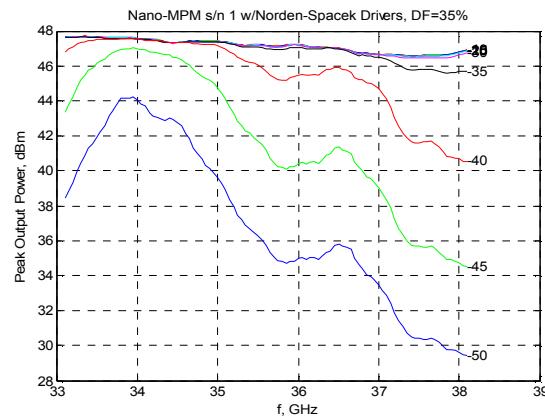
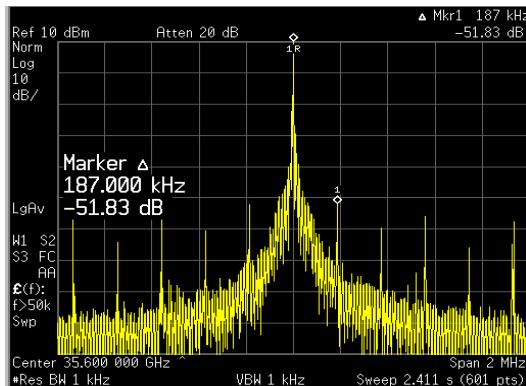


*FARAD: Facility for Advanced Radar and Algorithm Development

Exceptional Service in the National Interest

Sandia Performance Verification Measurements

- Saturated output power vs frequency
- Frequency response vs input drive level (including driver amp)
- Range impulse response over full operational bandwidth
- Pulsed spectrum spurious level
- Output noise level with modulation off
- Prime power requirements and efficiency



Measured performance meets or exceeds all requirements!