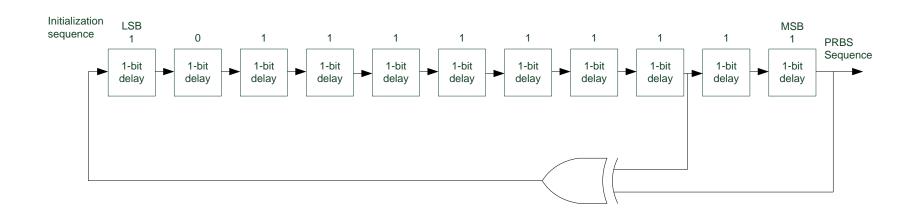
Wideband Probe

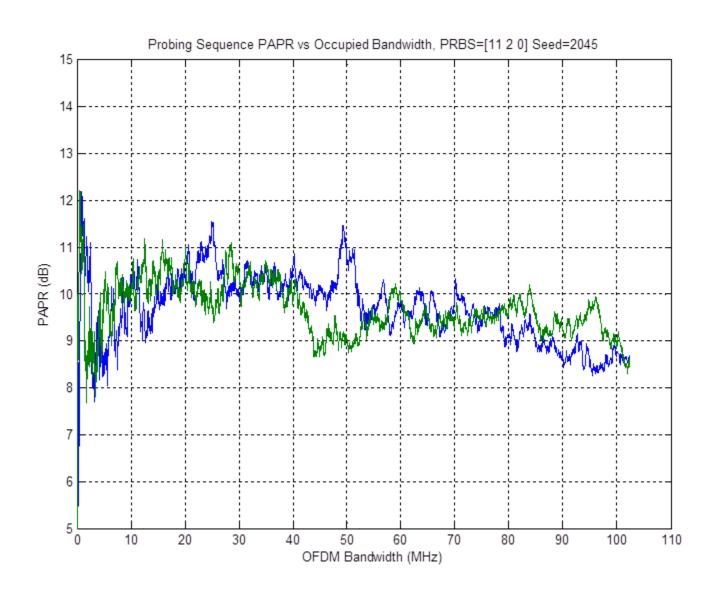
Leo Montreuil, Broadcom Rich Prodan, Broadcom Avi Kliger, Broadcom Ravi Rajagopal, Broadcom

Wideband Probe

- Polynomial : $X^{11} + X^2 + 1$, Seed = 2045 decimal
- BPSK mapping: $0 \rightarrow 1$, $1 \rightarrow -1$
- Sequence mapped to subcarriers in increase frequency order and wrap around to negative frequencies at $N_{ffr}/2$. First bit on first subcarrier at 0 Hz (center frequency).



PAPR of 2K (blue) and 4K (green) Probe



Power of Probe vs. Bandwidth

