

## Exhibit B – Antenna TX Gain Patterns

Plot notes:

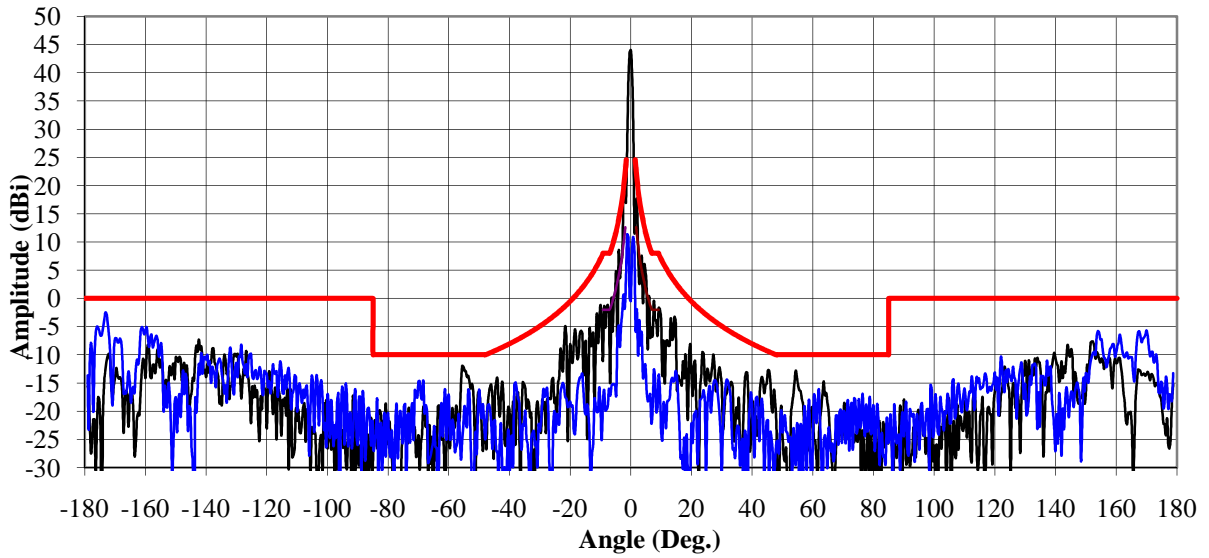
Black trace is co-polarization gain pattern

Blue trace is cross-polarization gain pattern

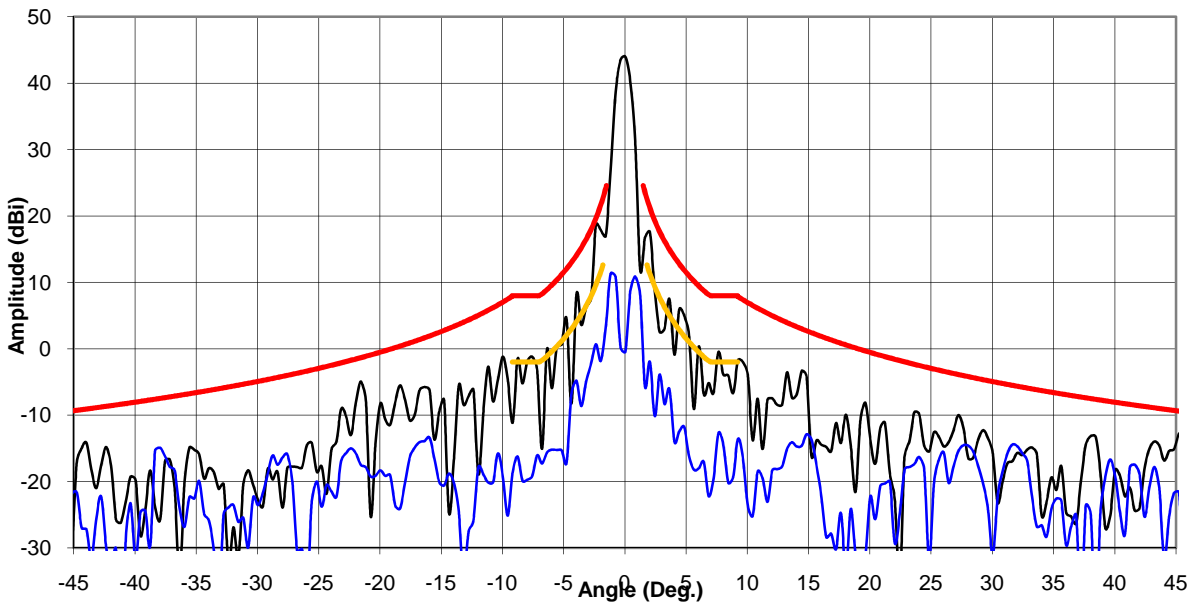
Red trace is FCC 25.209(a)(2) co-polarization mask

Yellow trace is FCC 25.209(b)(1) cross-polarization mask

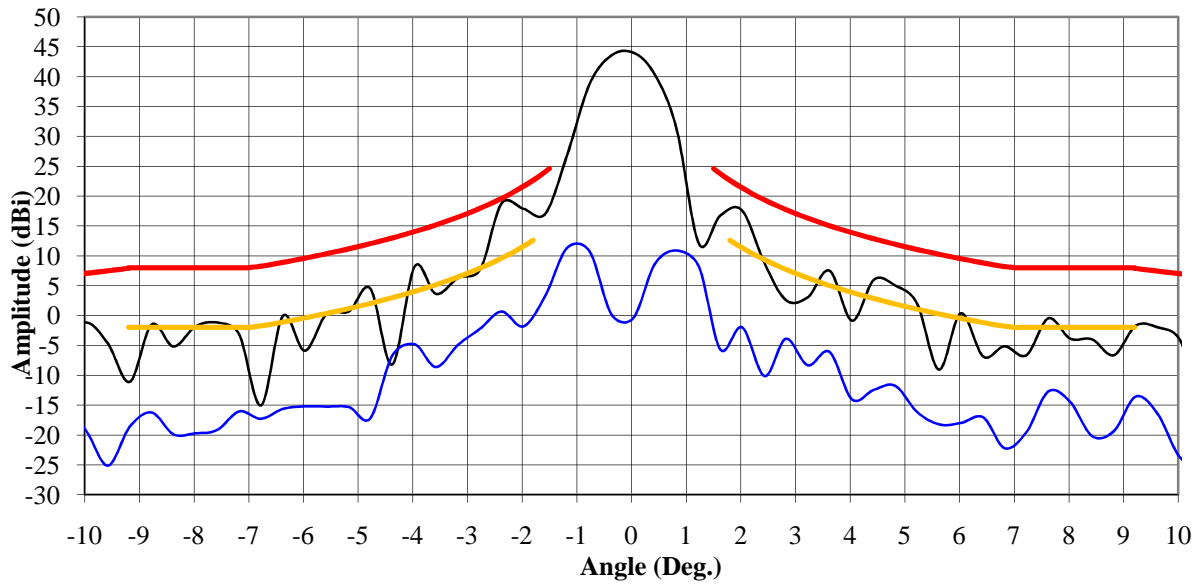
**Surfbeam-2 User Terminal**  
**Tx Az 29.50 GHz LHC**  
**Gain = 44.45 dBi**



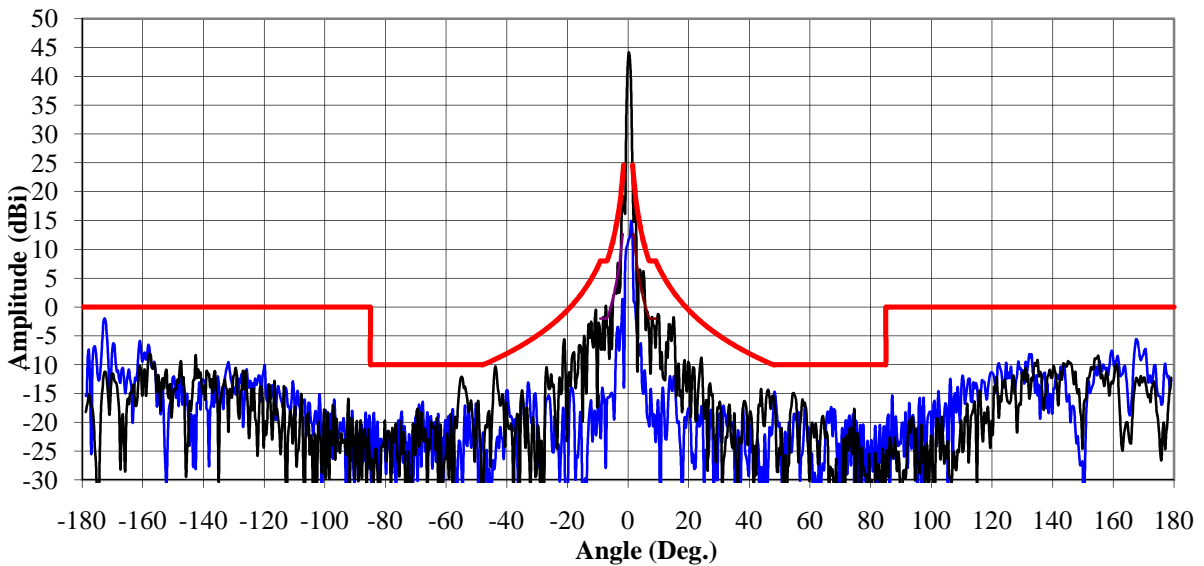
**Surfbeam-2 User Terminal**  
**Tx Az 28.50 GHz LHC**  
**Gain = 44.45 dBi**



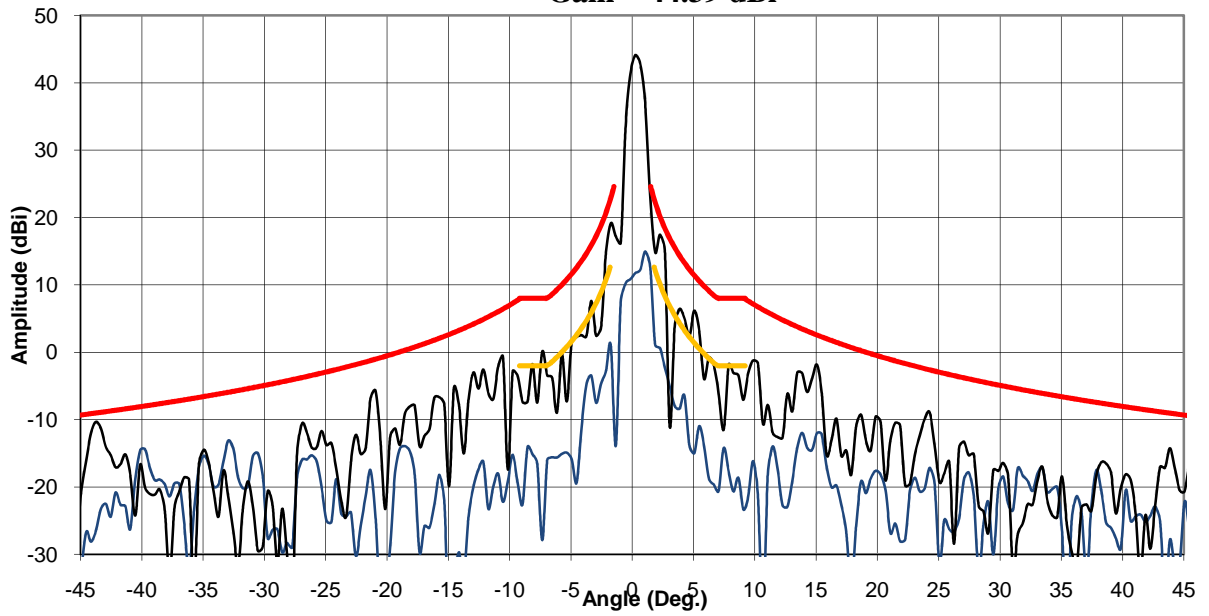
**Surfbeam-2 User Terminal**  
**Tx Az 29.50 GHz LHC**  
**Gain = 44.45 dBi**



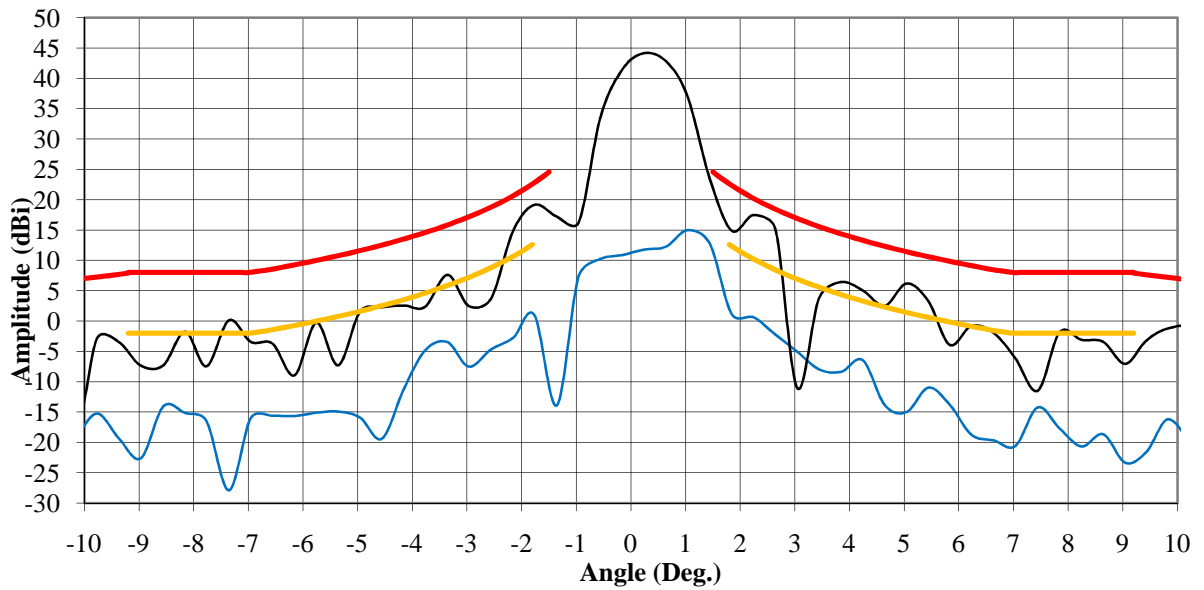
**Surfbeam-2 User Terminal**  
**Tx Az 29.50 GHz RHC**  
**Gain = 44.39 dBi**



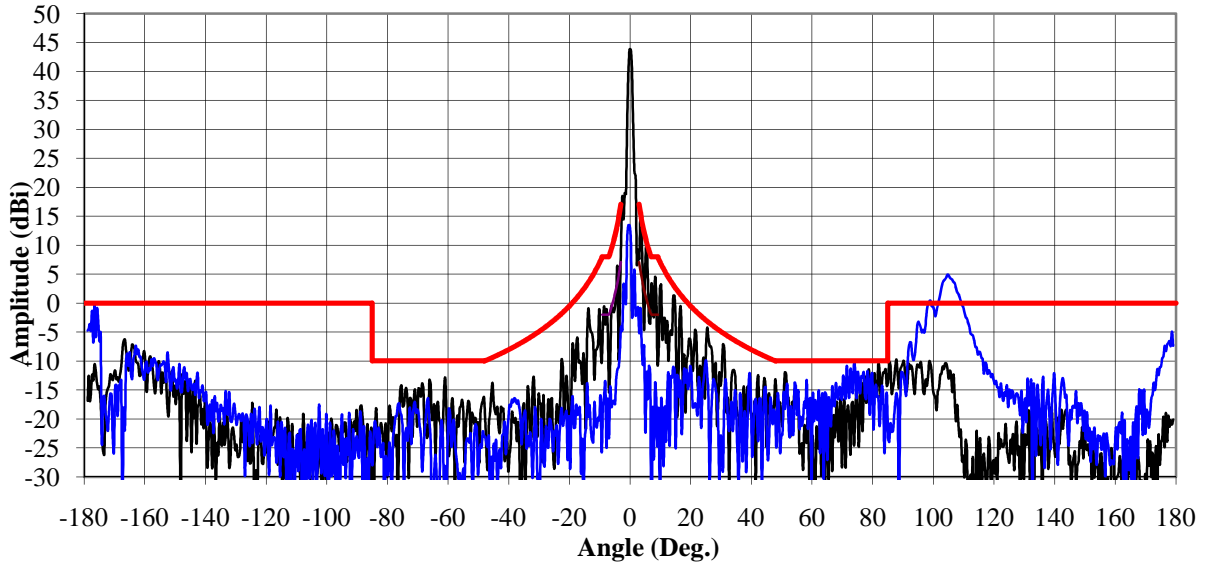
**Surfbeam-2 User Terminal**  
**Tx Az 28.50 GHz RHC**  
**Gain = 44.39 dBi**



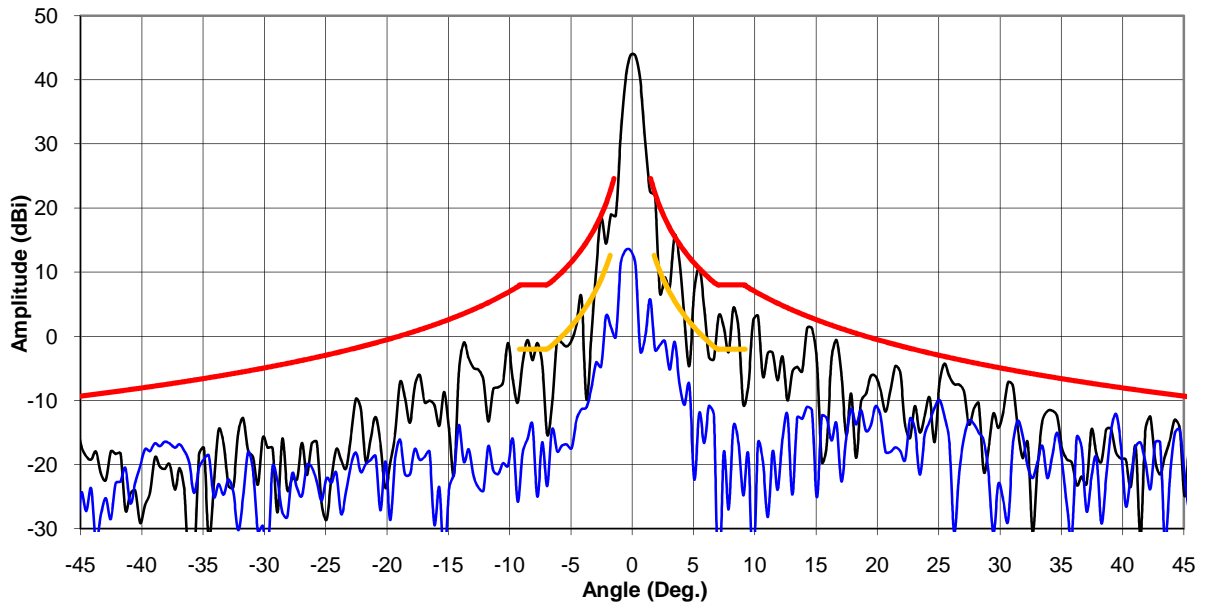
**Surfbeam-2 User Terminal**  
**Tx Az 29.50 GHz RHC**  
**Gain = 44.39 dBi**



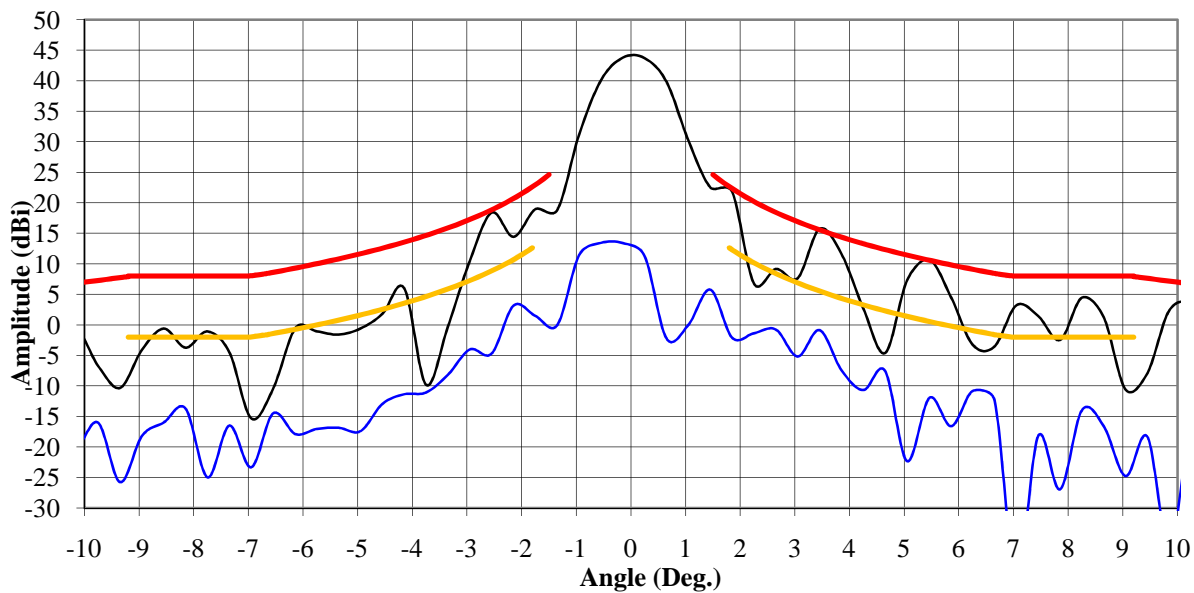
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz LHC**  
**Gain = 44.45 dBi**



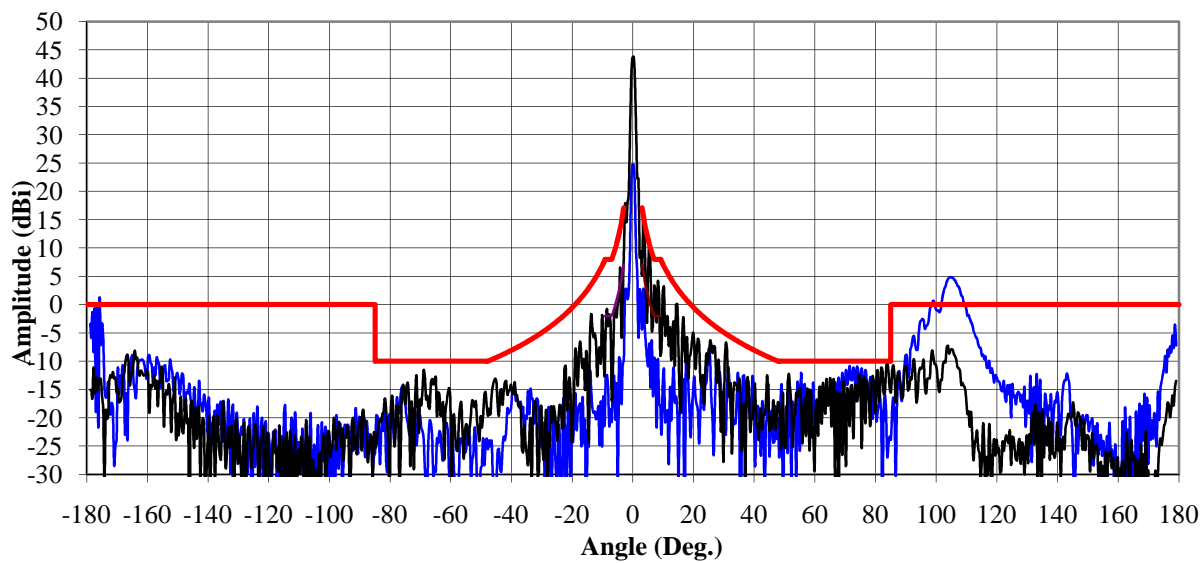
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz LHC**  
**Gain = 44.45 dBi**



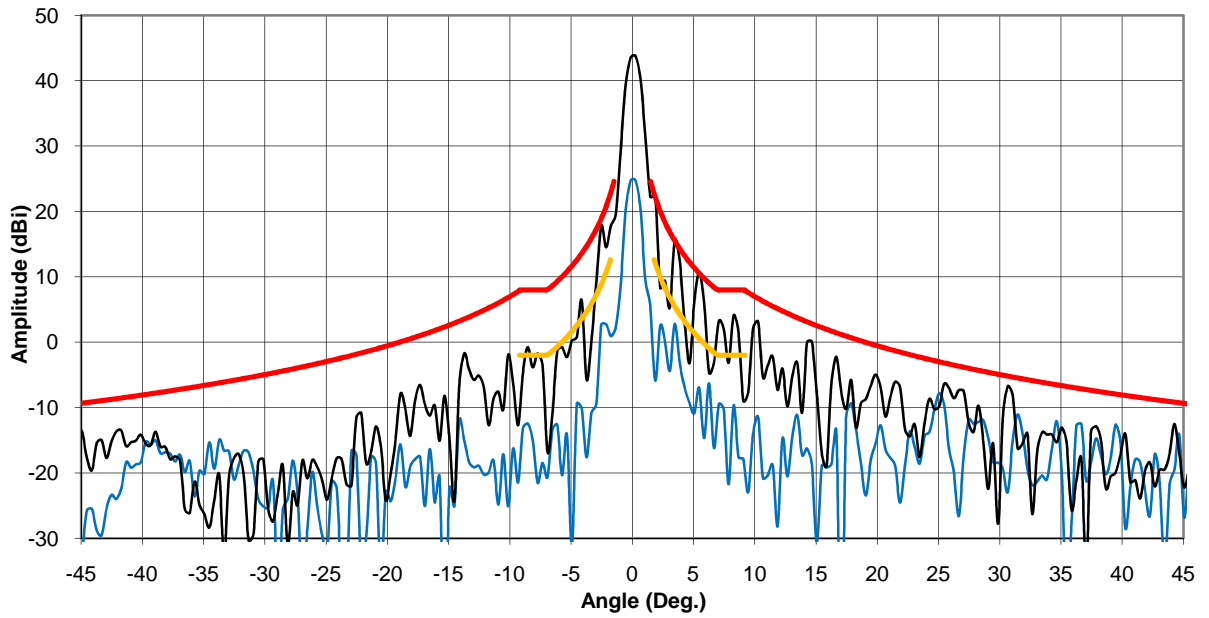
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz LHC**  
**Gain = 44.45 dBi**



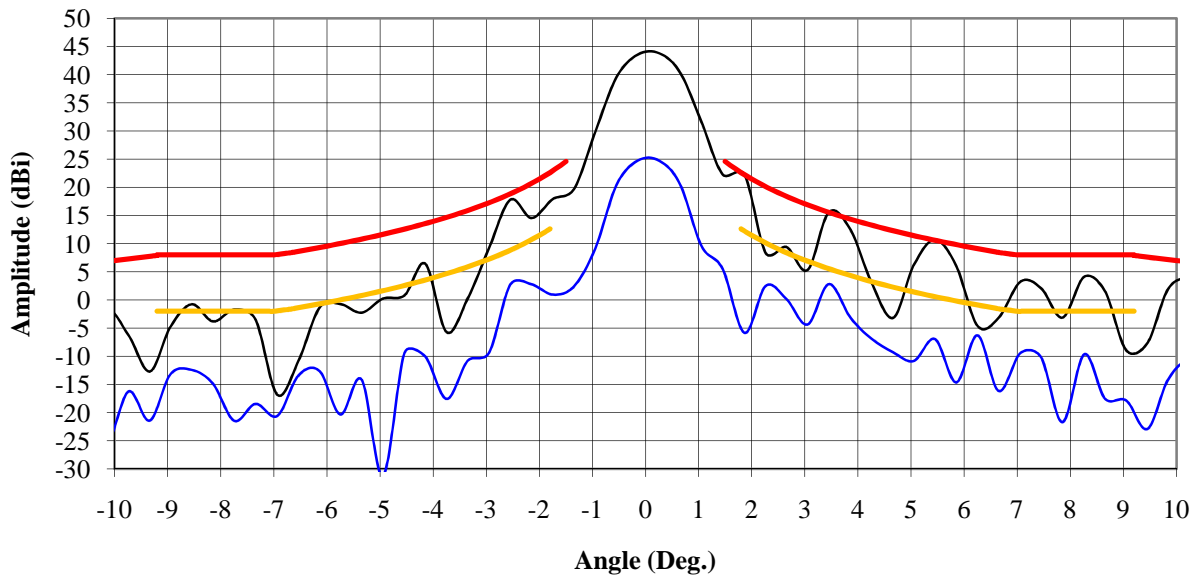
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz RHC**  
**Gain = 44.39 dBi**



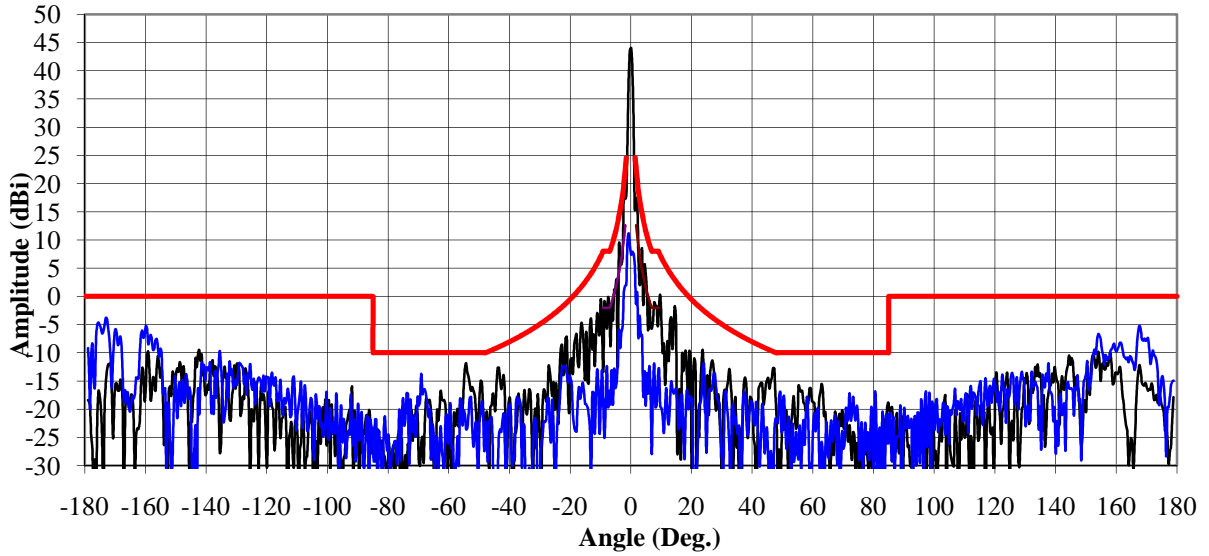
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz RHC**  
**Gain = 44.39 dBi**



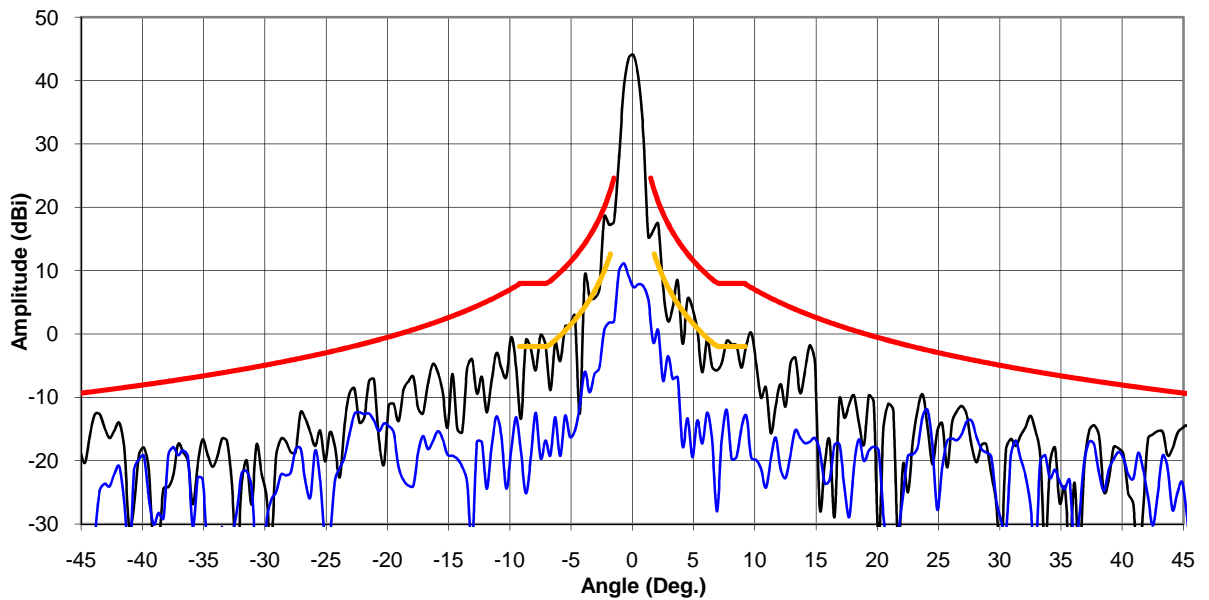
**Surfbeam-2 User Terminal**  
**Tx EL 29.50 GHz RHC**  
**Gain = 44.39 dBi**



**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz LHC**  
**Gain = 44.48 dBi**

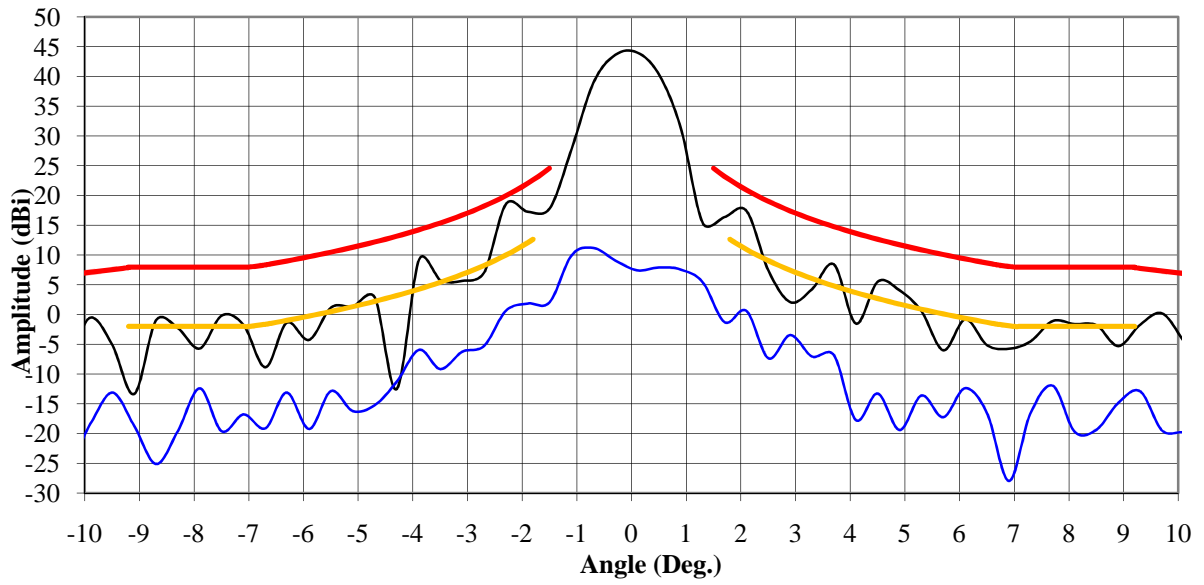


**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz LHC**  
**Gain = 44.48 dBi**

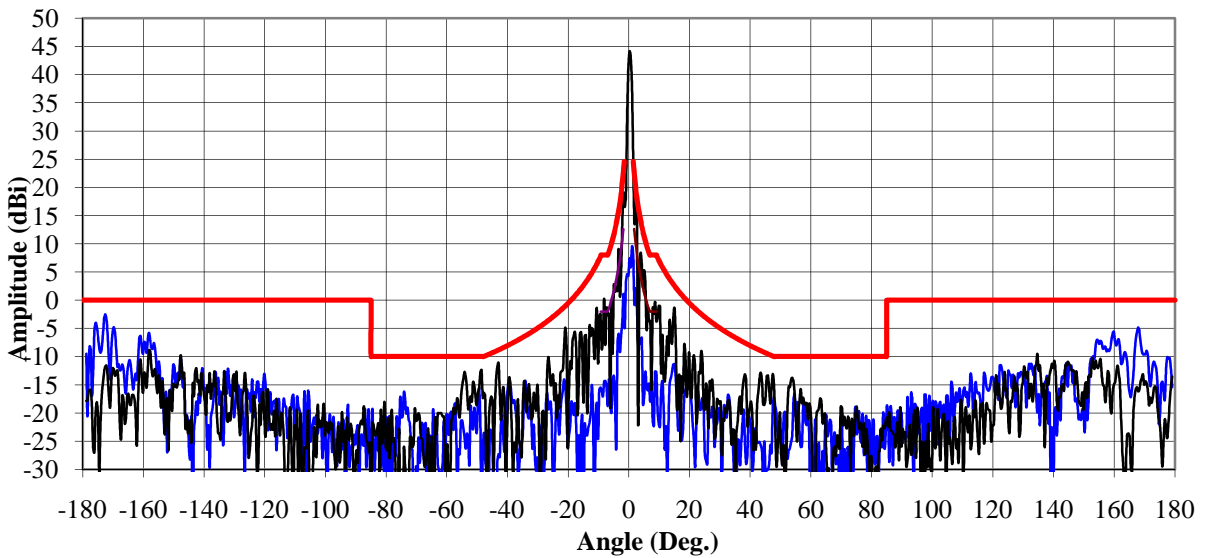




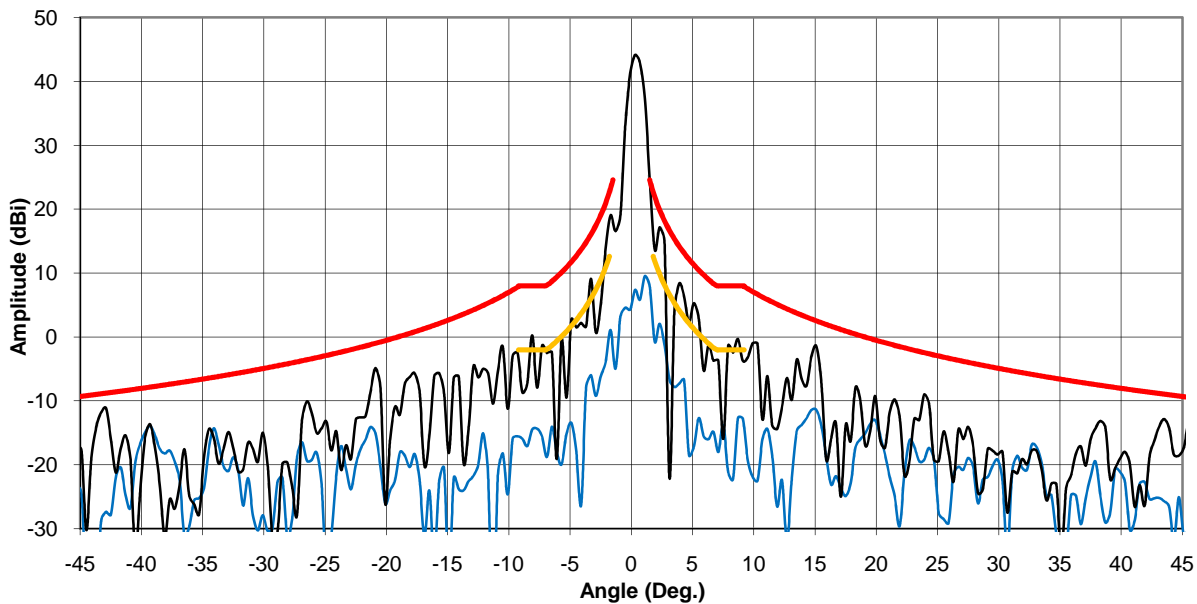
**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz LHC**  
**Gain = 44.48 dBi**



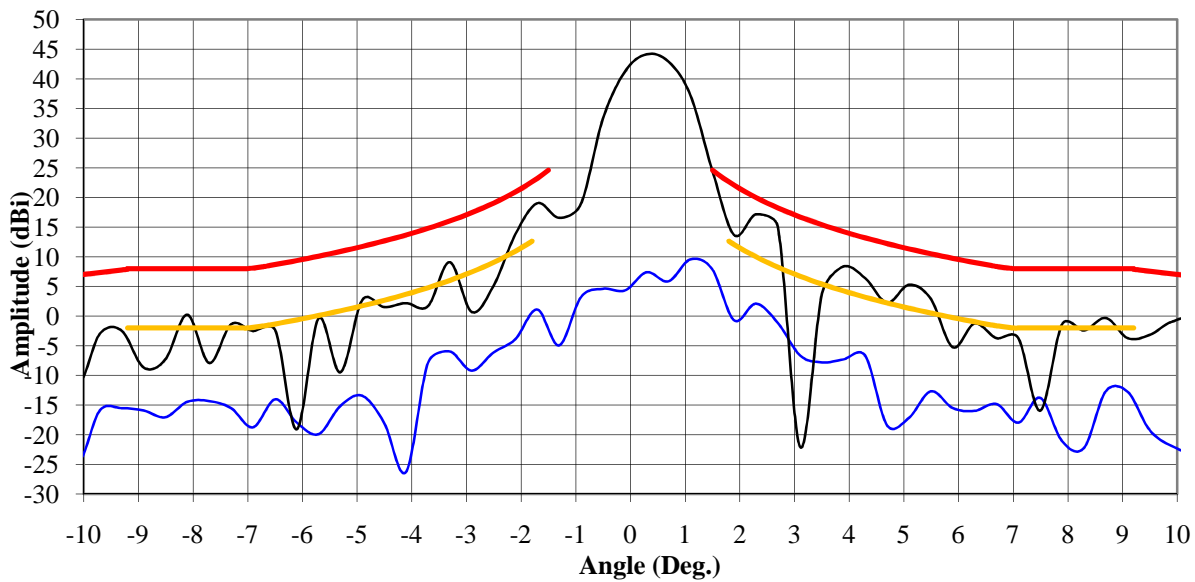
**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz RHC**  
**Gain = 44.44 dBi**



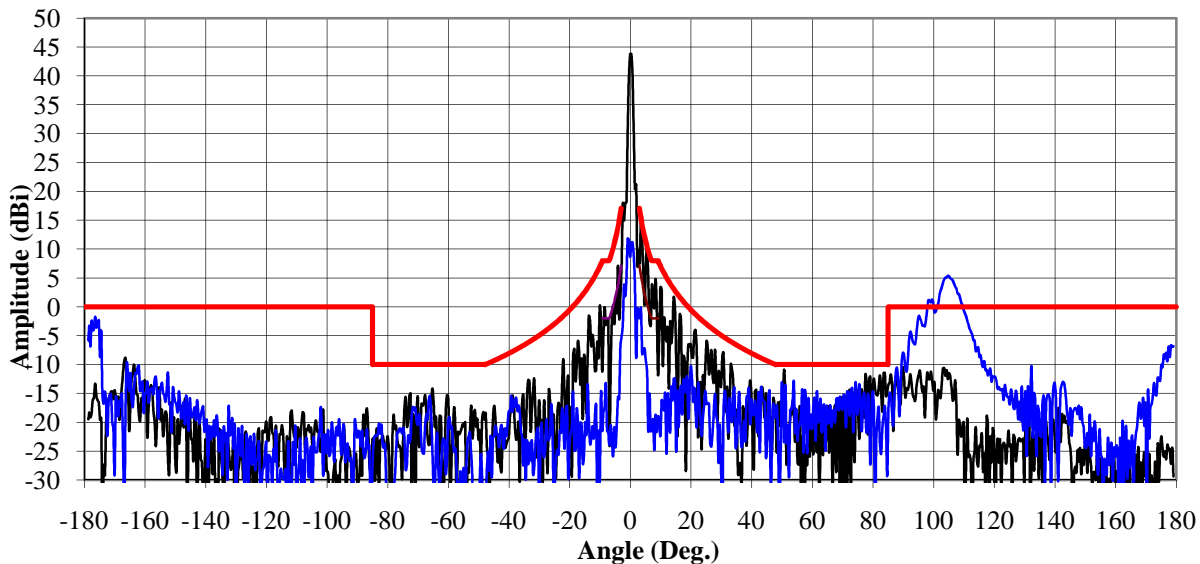
**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz RHC**  
**Gain = 44.44 dBi**



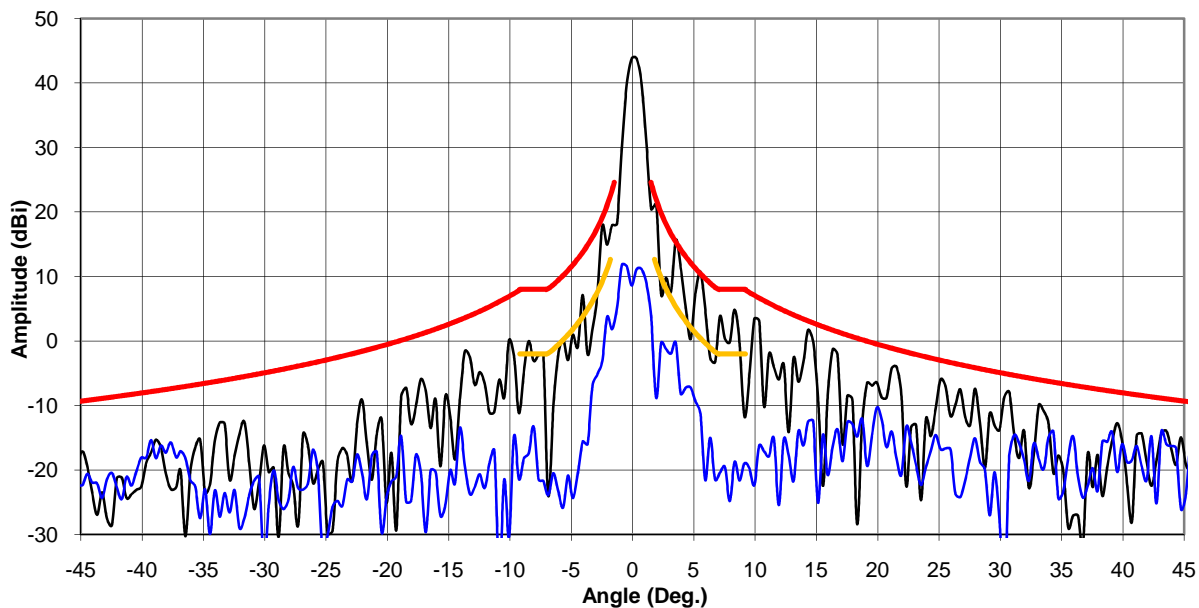
**Surfbeam-2 User Terminal**  
**Tx Az 29.75 GHz RHC**  
**Gain = 44.44 dBi**



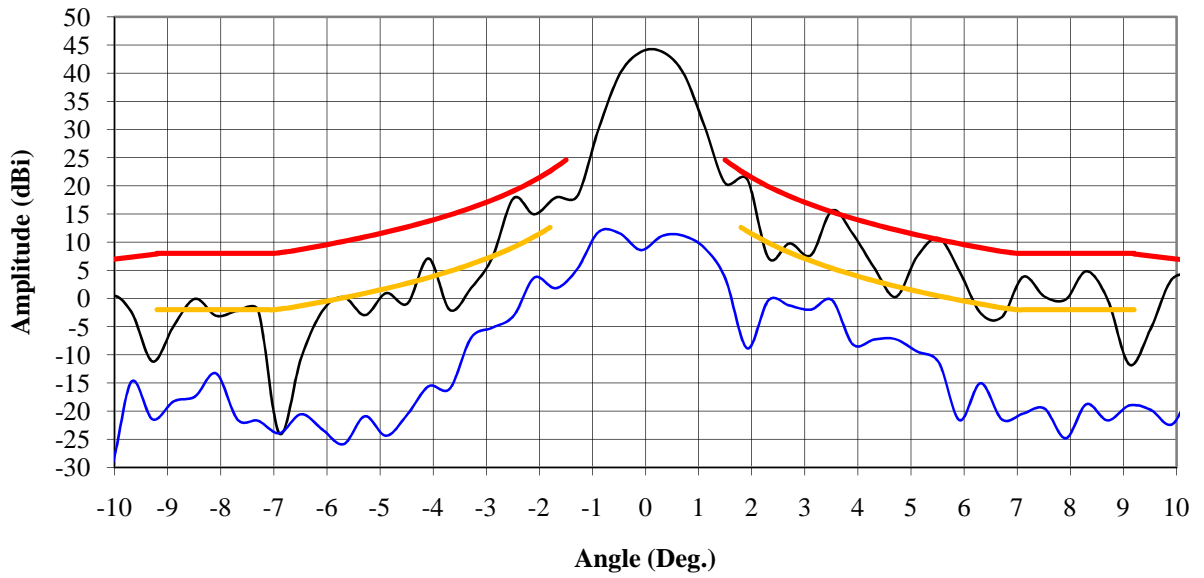
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz LHC**  
**Gain = 44.48 dBi**



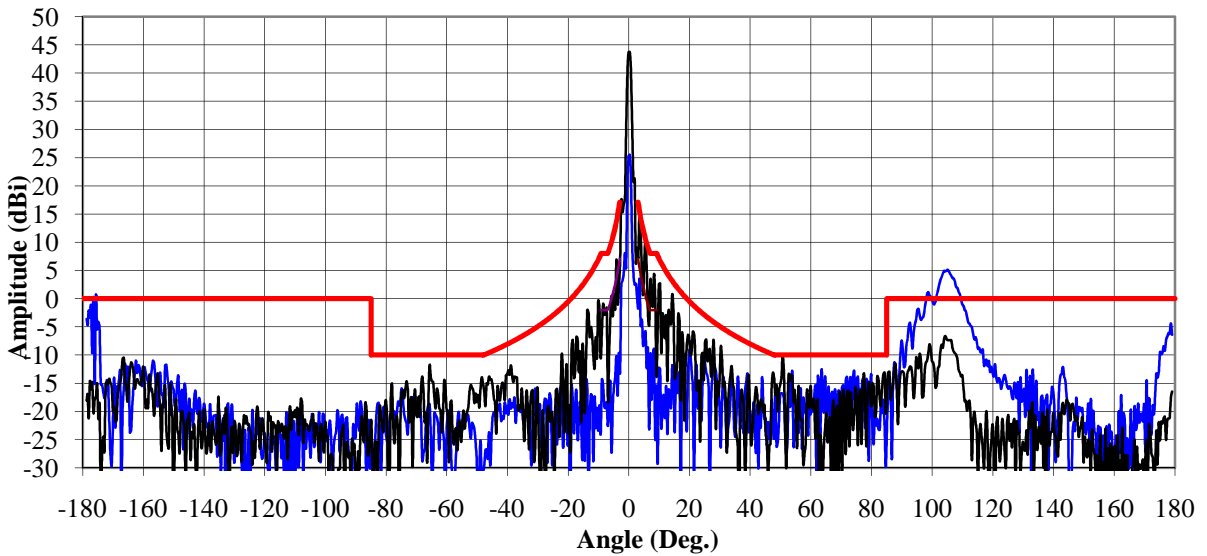
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz LHC**  
**Gain = 44.48 dBi**



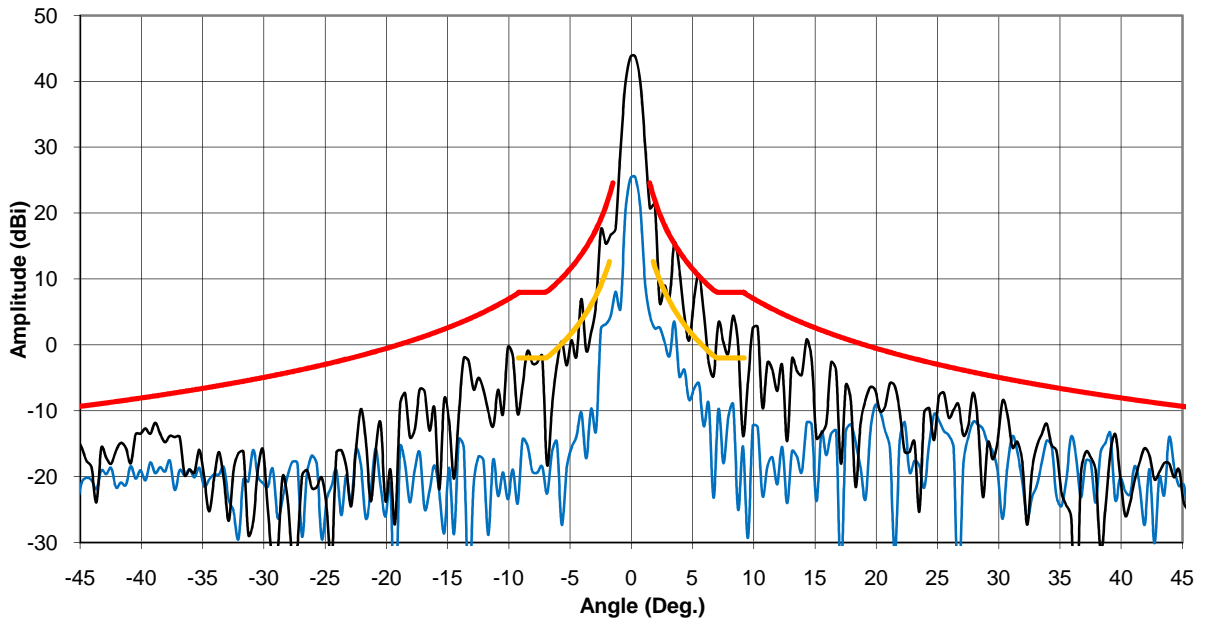
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz LHC**  
**Gain = 44.48 dBi**



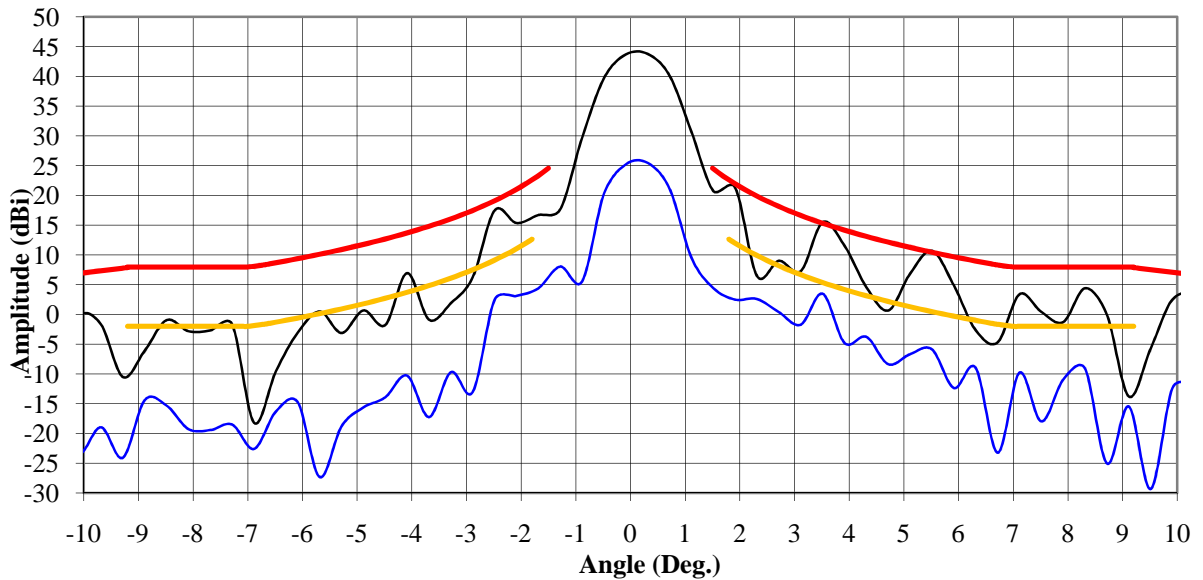
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz RHC**  
**Gain = 44.44 dBi**



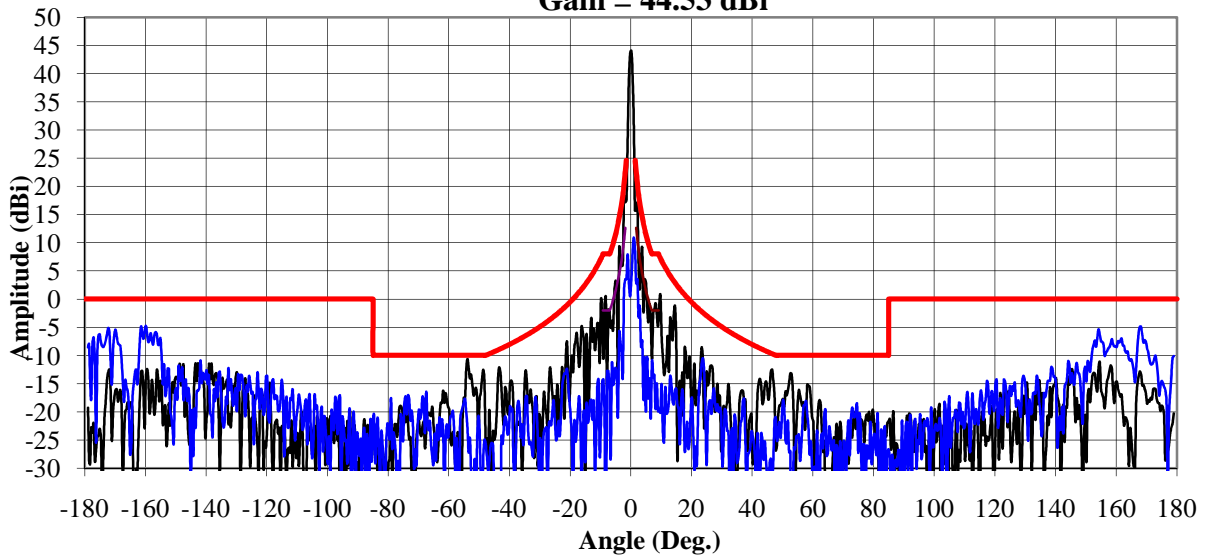
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz RHC**  
**Gain = 44.44 dBi**



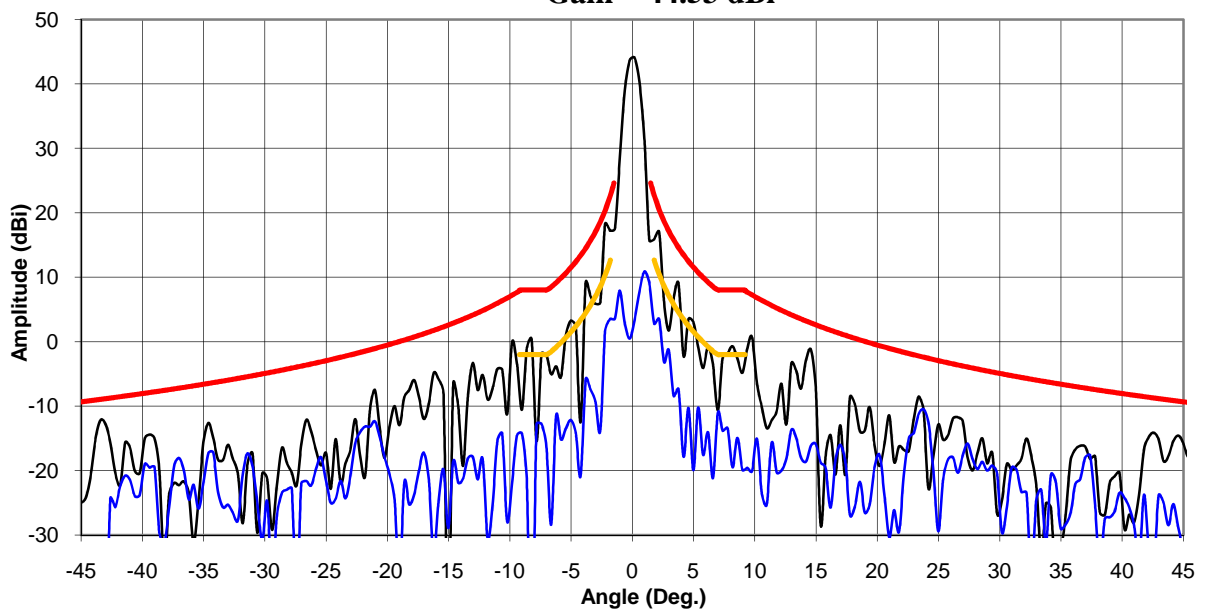
**Surfbeam-2 User Terminal**  
**Tx EL 29.75 GHz RHC**  
**Gain = 44.44 dBi**



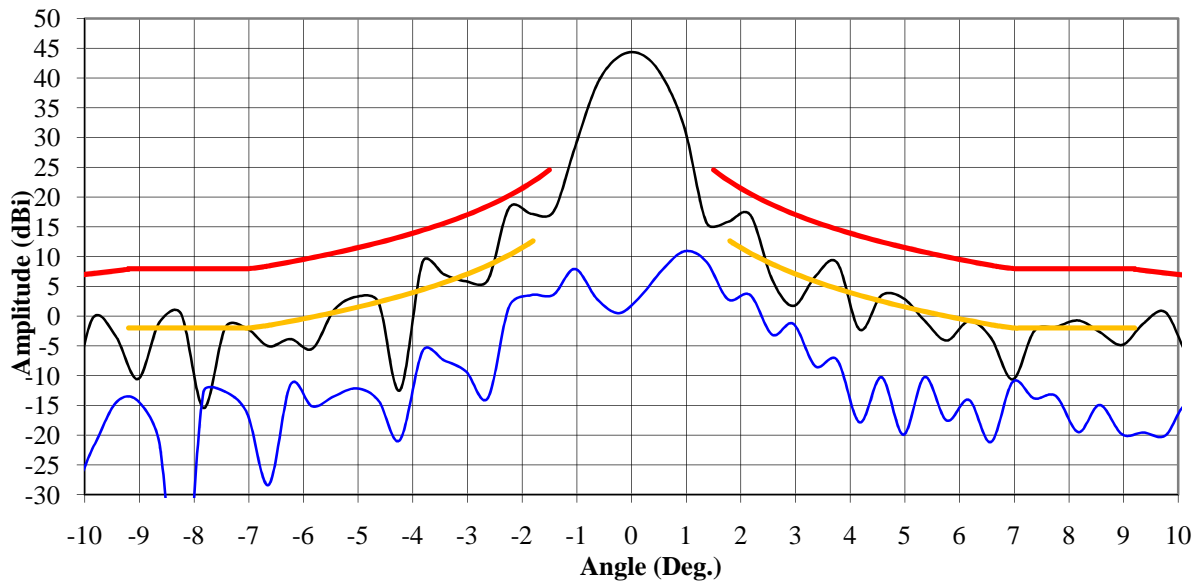
**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz LHC**  
**Gain = 44.53 dBi**



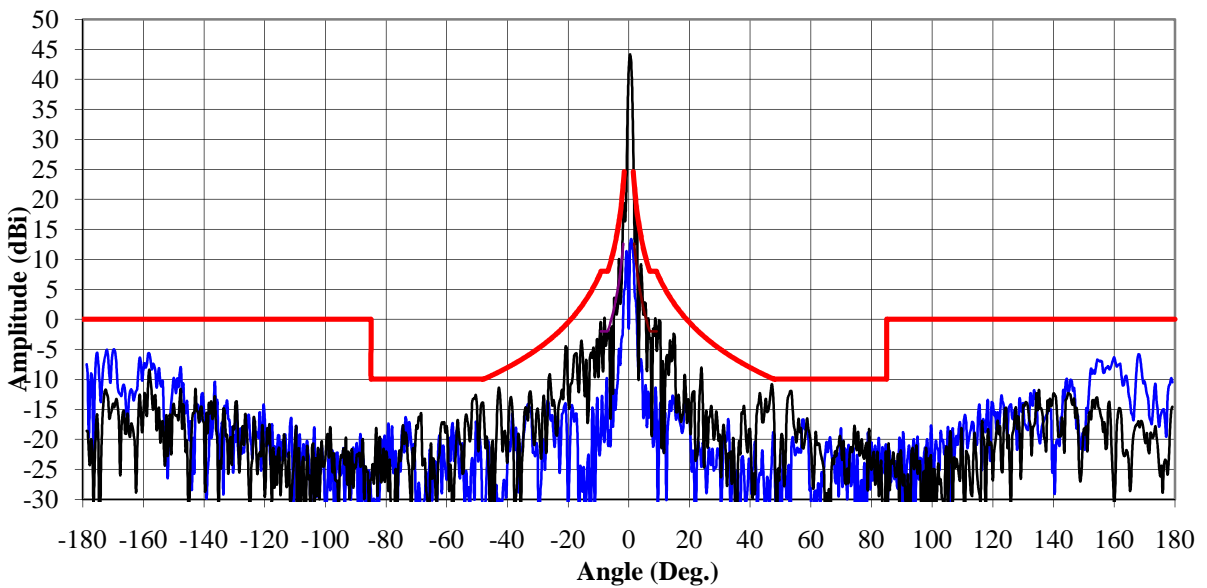
**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz LHC**  
**Gain = 44.53 dBi**



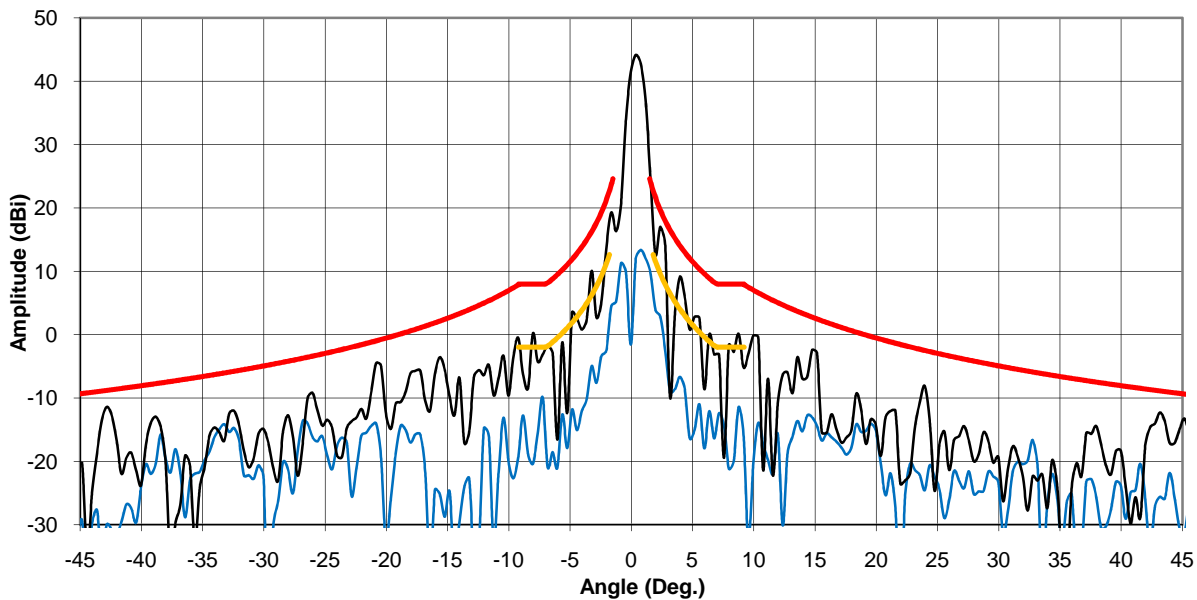
**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz LHC**  
**Gain = 44.53 dBi**



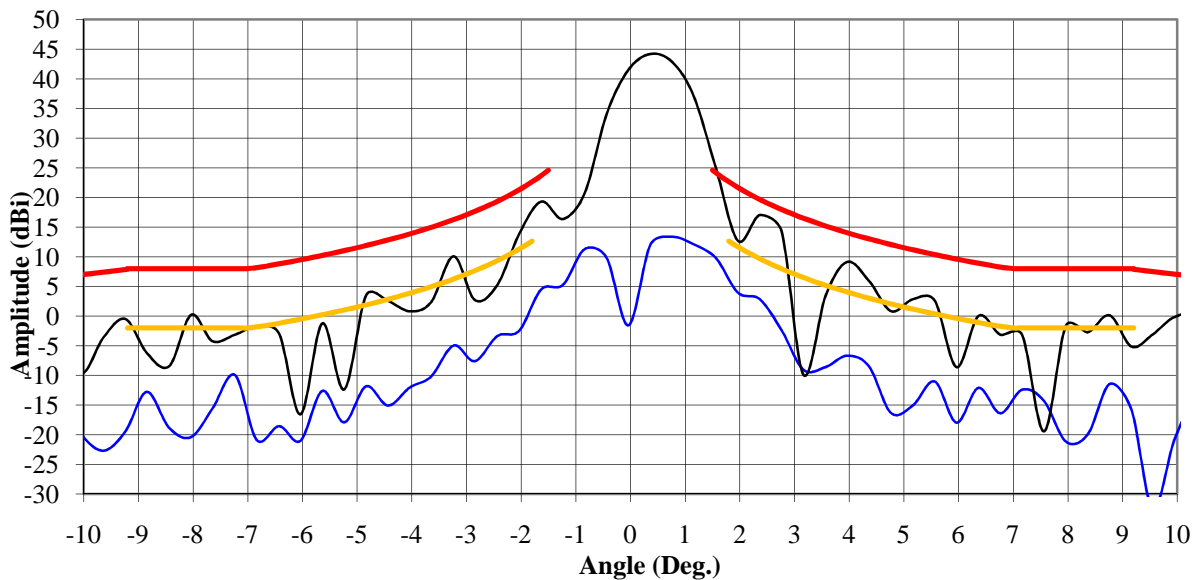
**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz RHC**  
**Gain = 44.47 dBi**



**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz RHC**  
**Gain = 44.47 dBi**

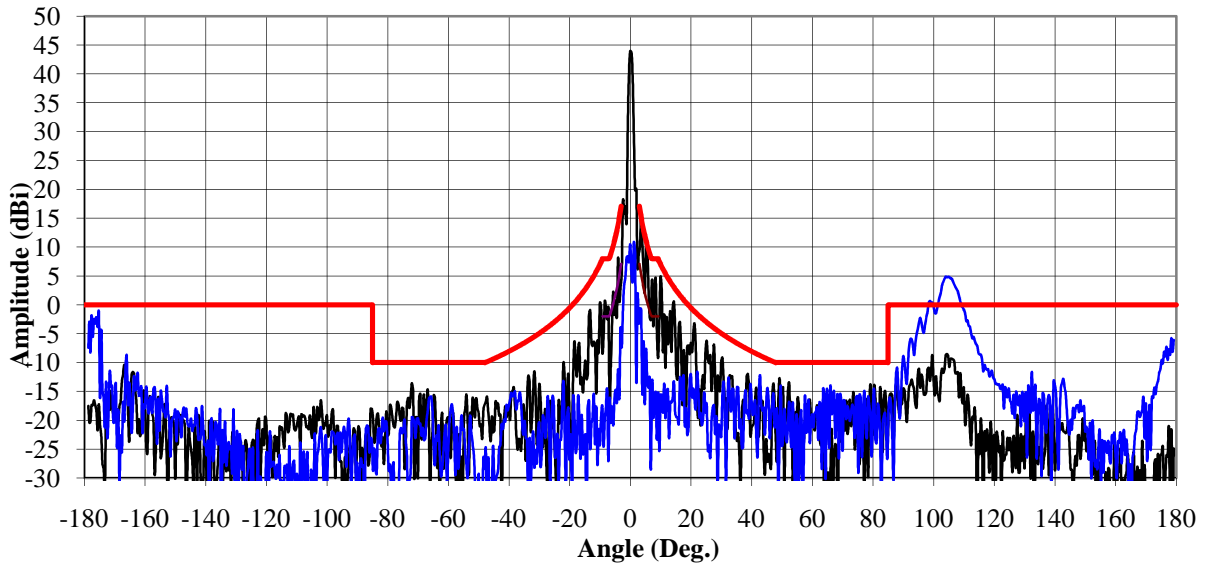


**Surfbeam-2 User Terminal**  
**Tx Az 30.00 GHz RHC**  
**Gain = 44.47 dBi**

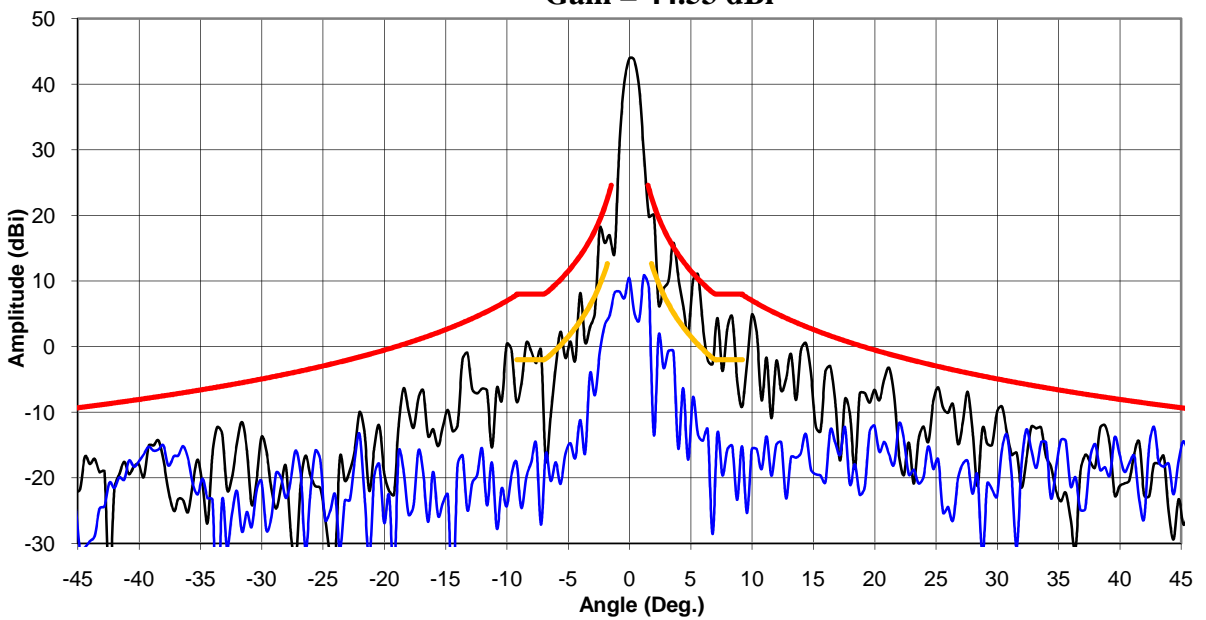




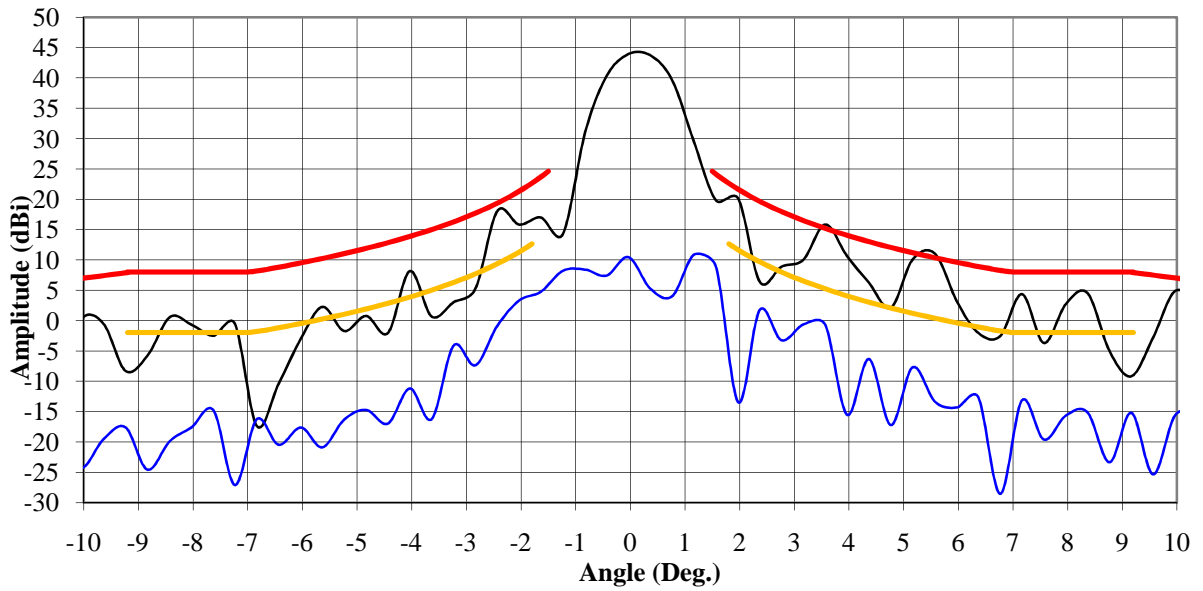
**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz LHC**  
**Gain = 44.53 dBi**



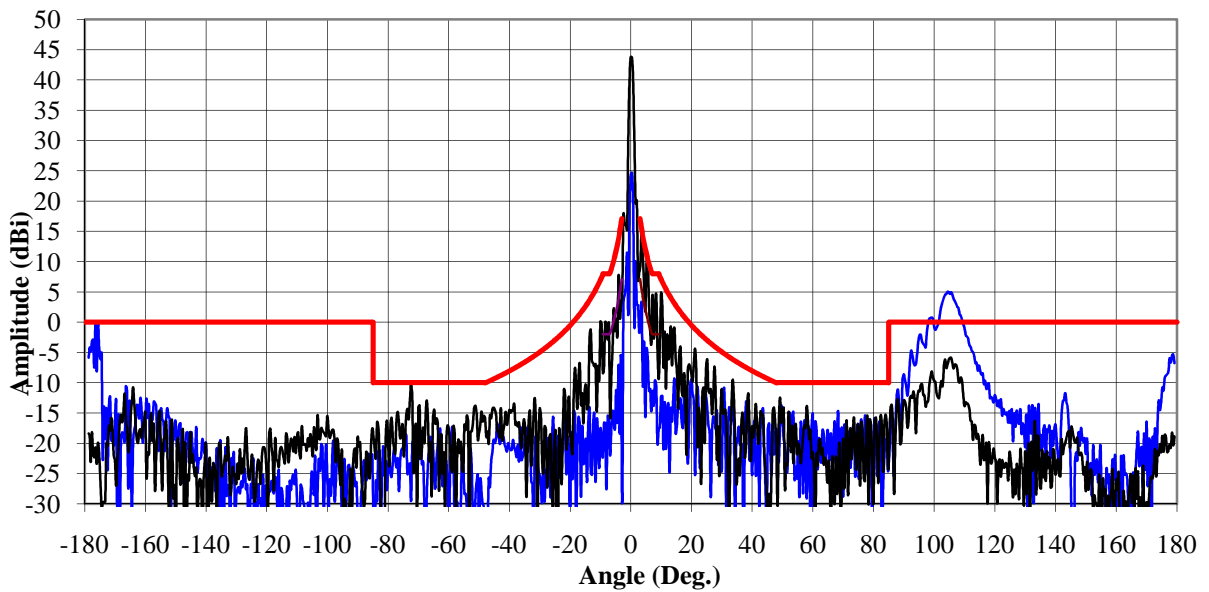
**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz LHC**  
**Gain = 44.53 dBi**



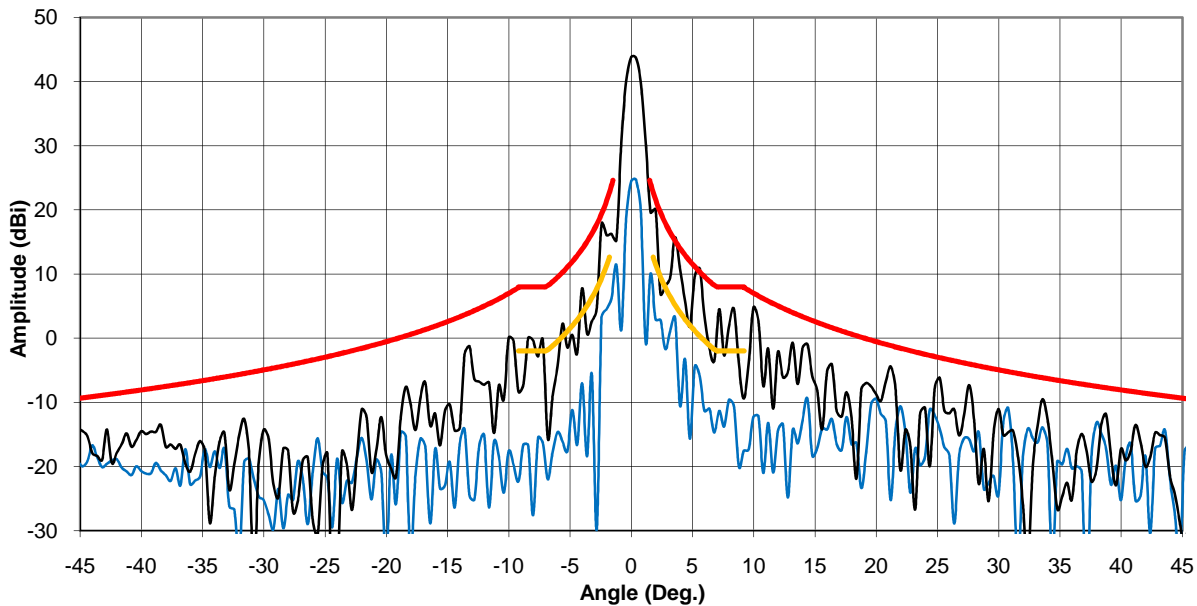
**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz LHC**  
**Gain = 44.53 dBi**



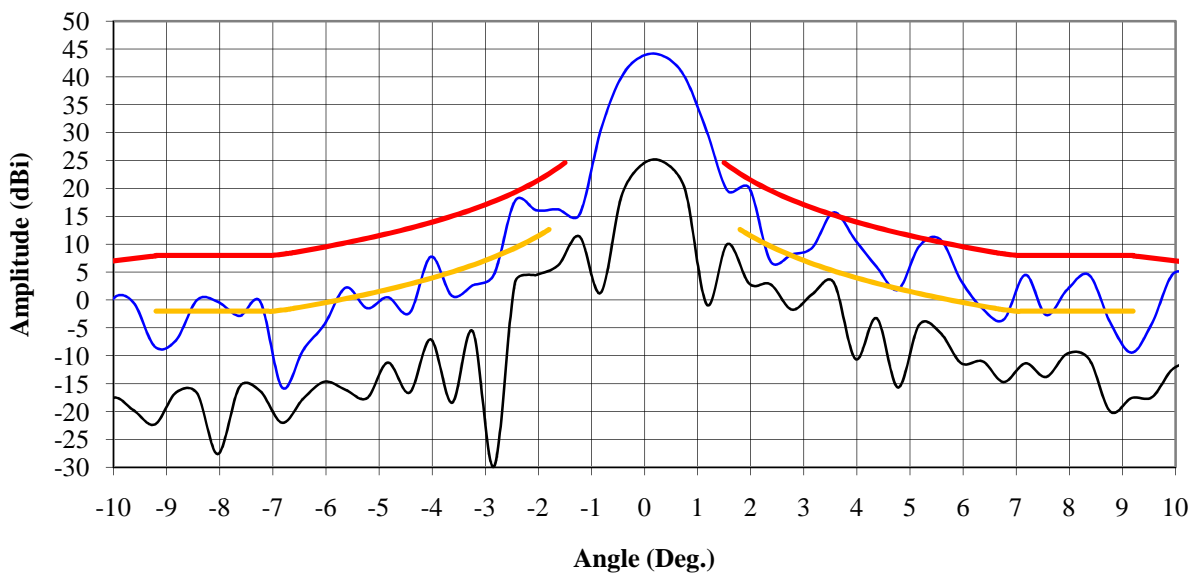
**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz RHC**  
**Gain = 44.47 dBi**



**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz RHC**  
**Gain = 44.47 dBi**



**Surfbeam-2 User Terminal**  
**Tx EL 30.00 GHz RHC**  
**Gain = 44.47 dBi**





## Exhibit B – Antenna RX Gain Patterns

Plot notes:

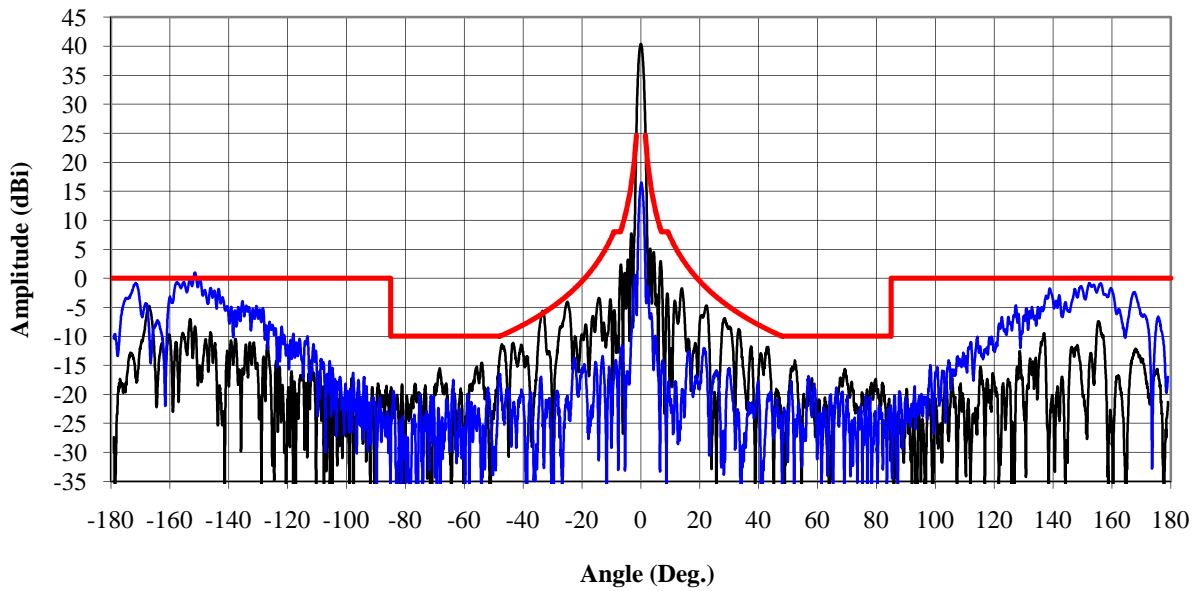
Black trace is co-polarization gain pattern

Blue trace is cross-polarization gain pattern

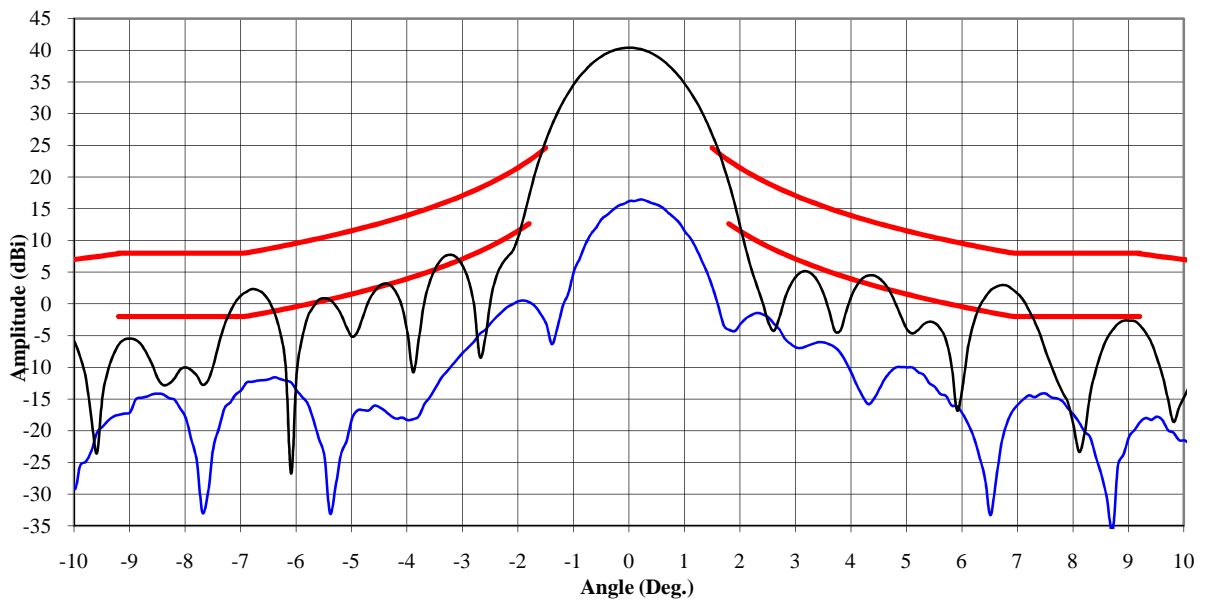
Upper red trace is FCC 25.209(a)(2) co-polarization mask

Lower red trace is FCC 25.209(b)(1) cross-polarization mask

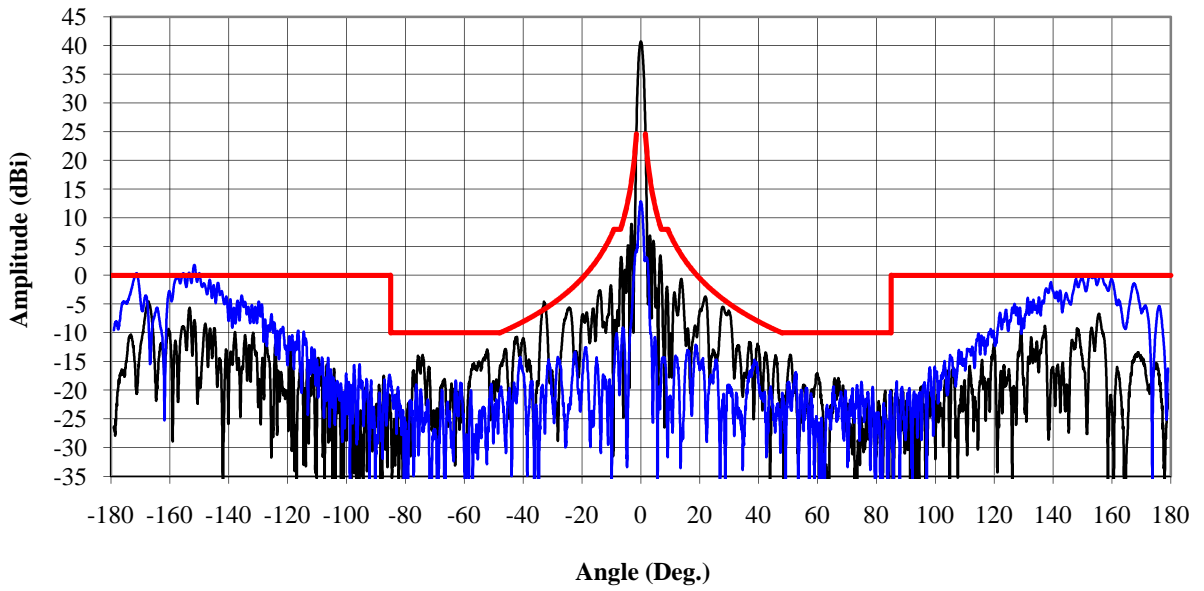
**Surfbeam-2 User Terminal  
Rx Az 19.70 GHz LHC  
Gain = 40.31 dBi**



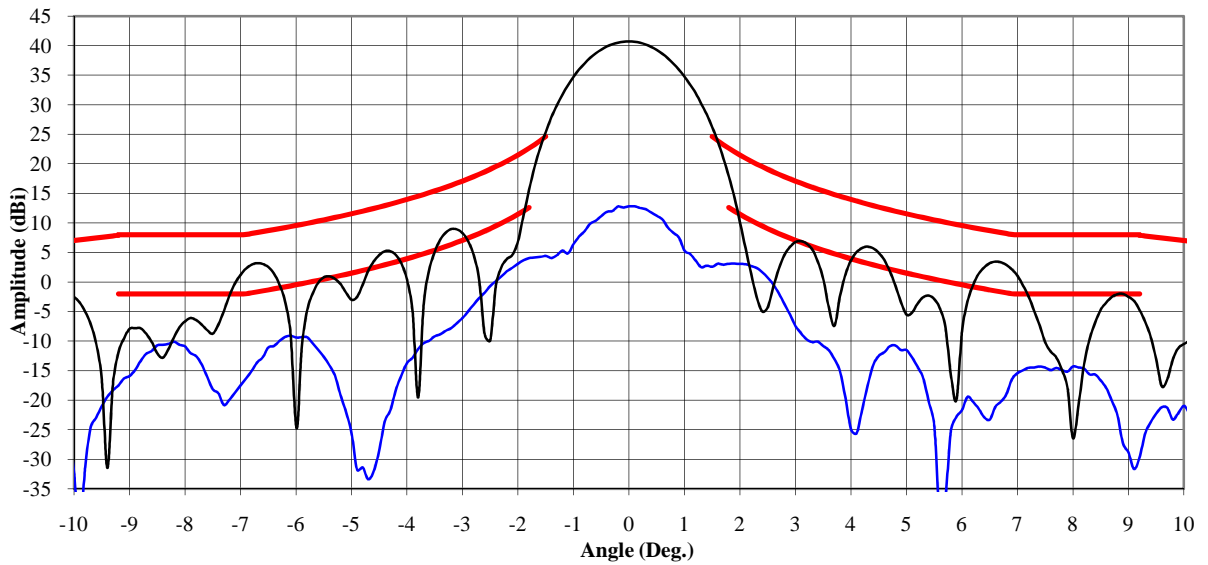
**Surfbeam-2 User Terminal  
Rx Az 19.70 GHz LHC  
Gain = 40.31 dBi**



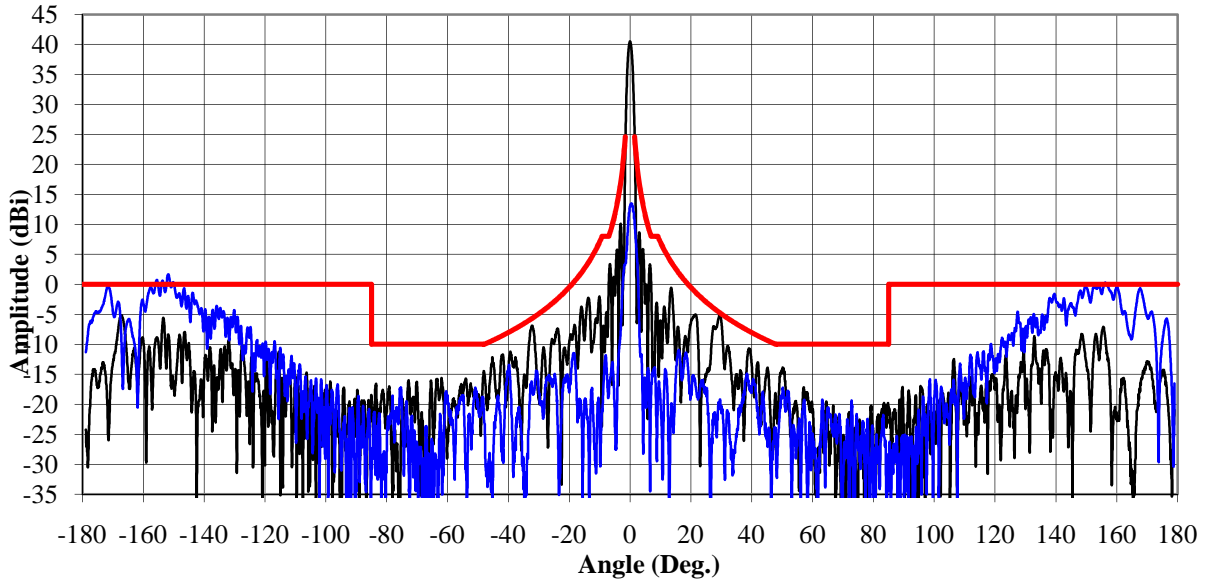
**Surfbeam-2 User Terminal**  
**Rx Az 19.95 GHz LHC**  
**Gain = 40.60 dBi**



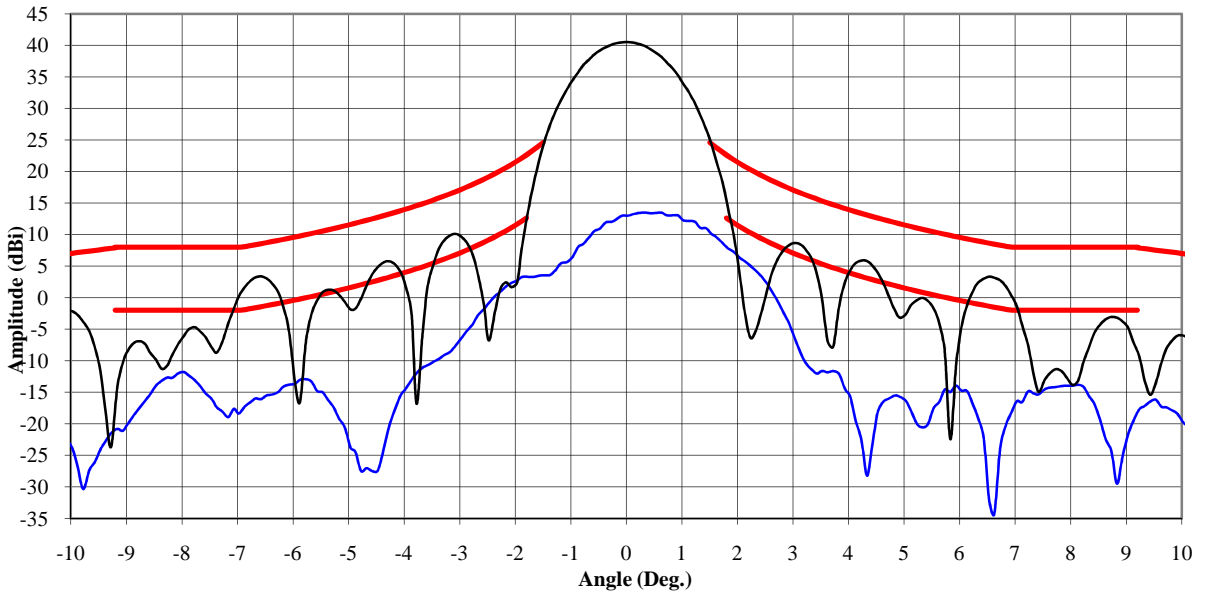
**Surfbeam-2 User Terminal**  
**Rx Az 19.95 GHz LHC**  
**Gain = 40.60 dBi**



**Surfbeam-2 User Terminal**  
**Rx Az 20.20 GHz LHC**  
**Gain = 40.40 dBi**

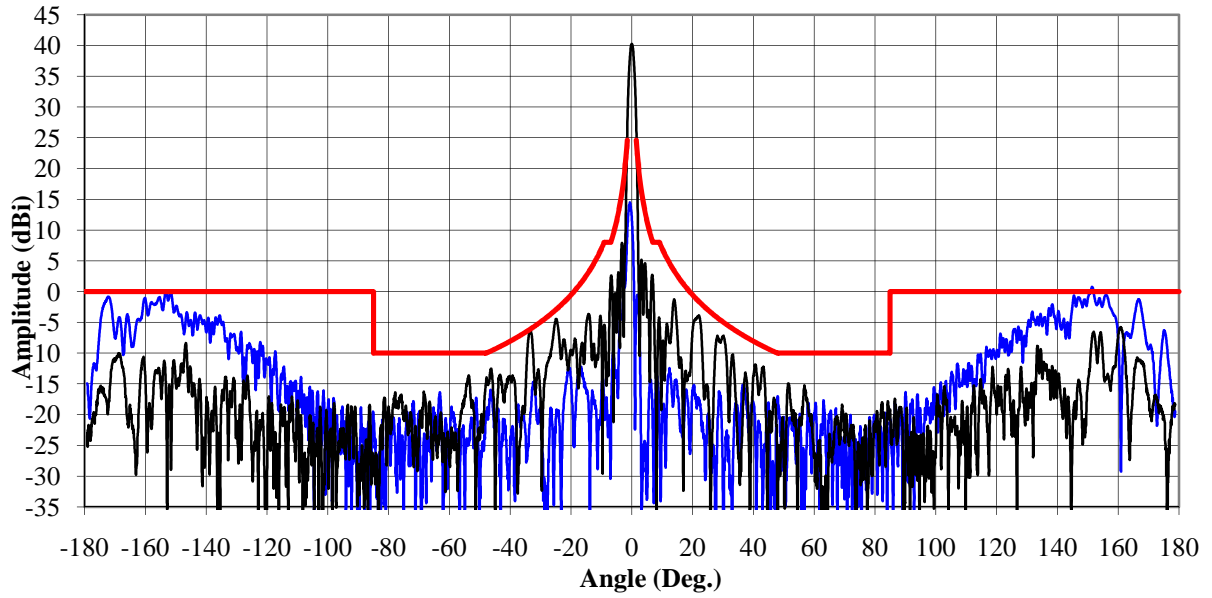


**Surfbeam-2 User Terminal**  
**Rx Az 20.20 GHz LHC**  
**Gain = 40.40 dBi**

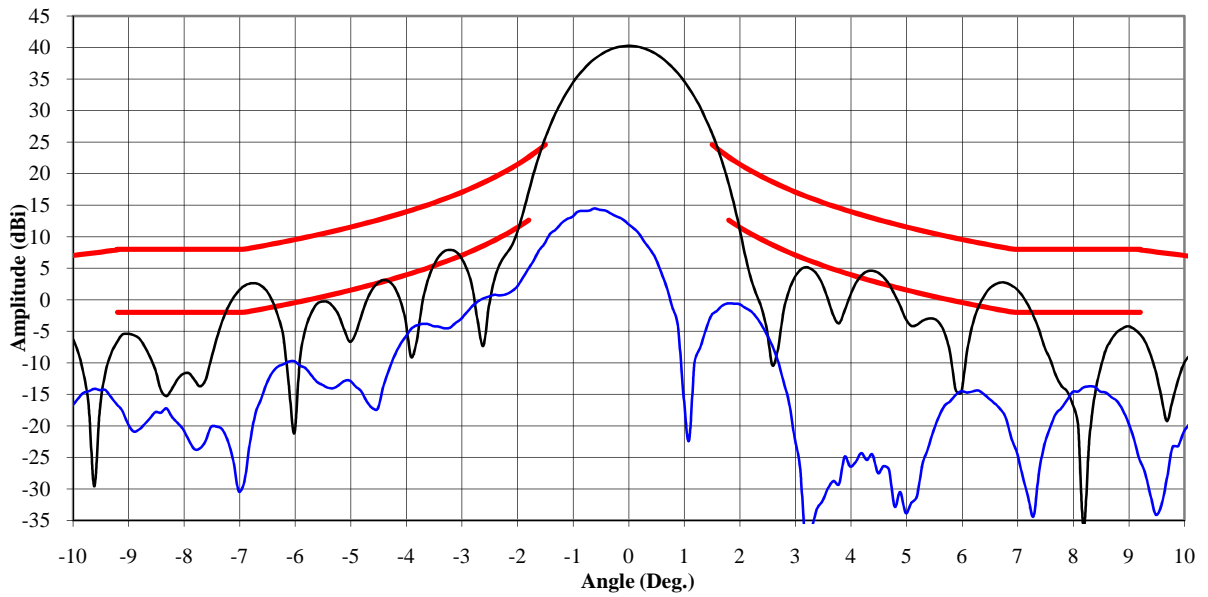




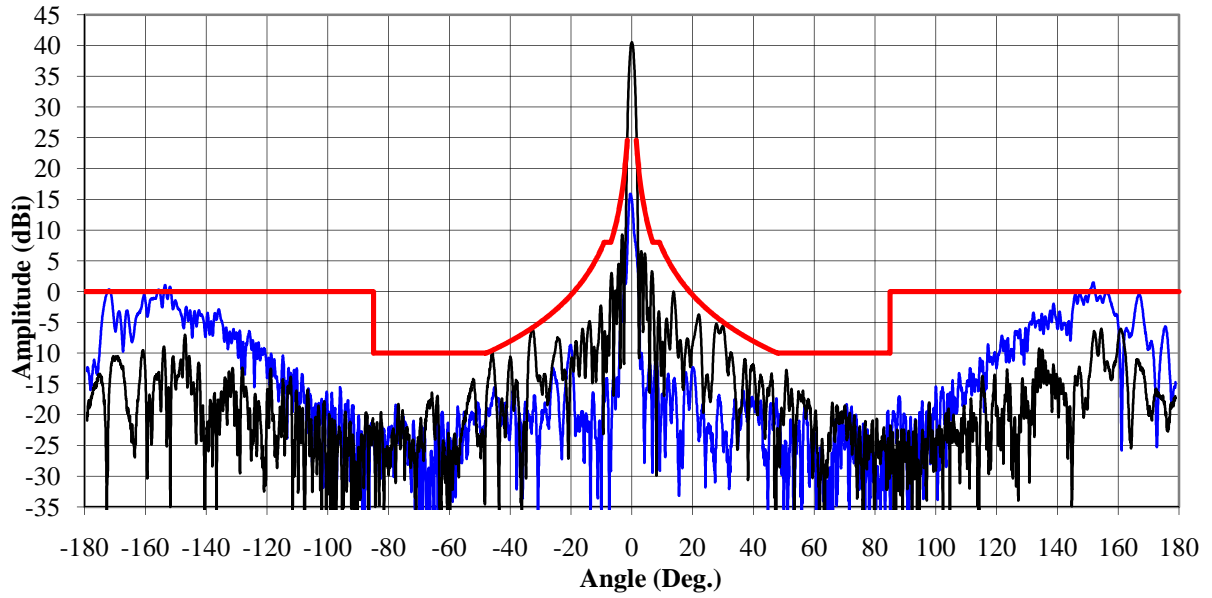
**Surfbeam-2 User Terminal**  
**Rx Az 19.70 GHz RHC**  
**Gain = 40.23 dBi**



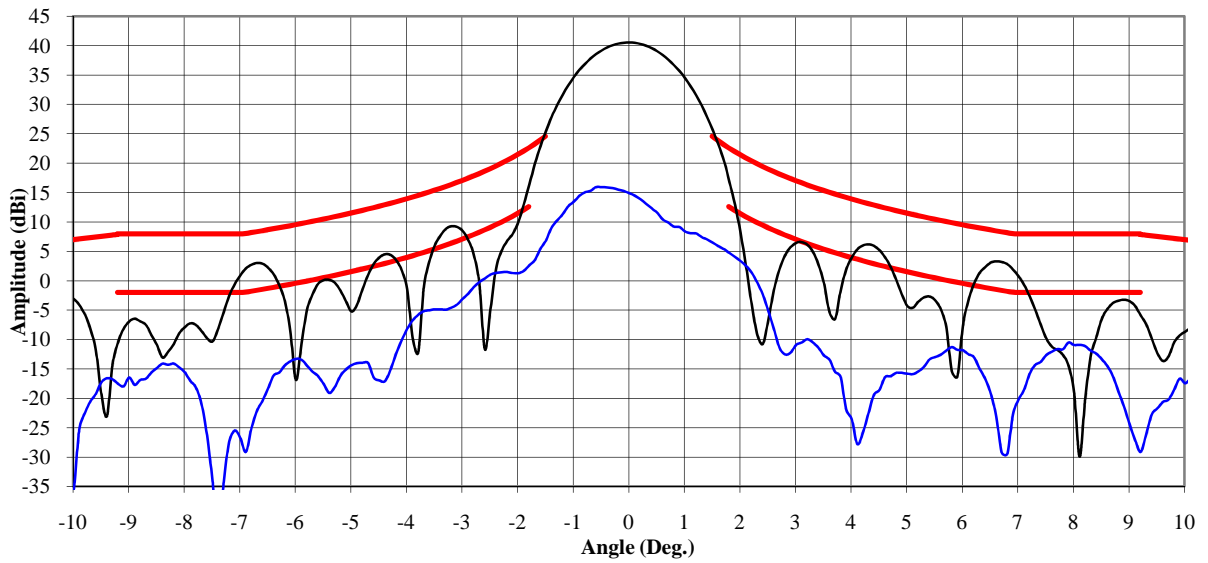
**Surfbeam-2 User Terminal**  
**Rx Az 19.70 GHz RHC**  
**Gain = 40.23 dBi**



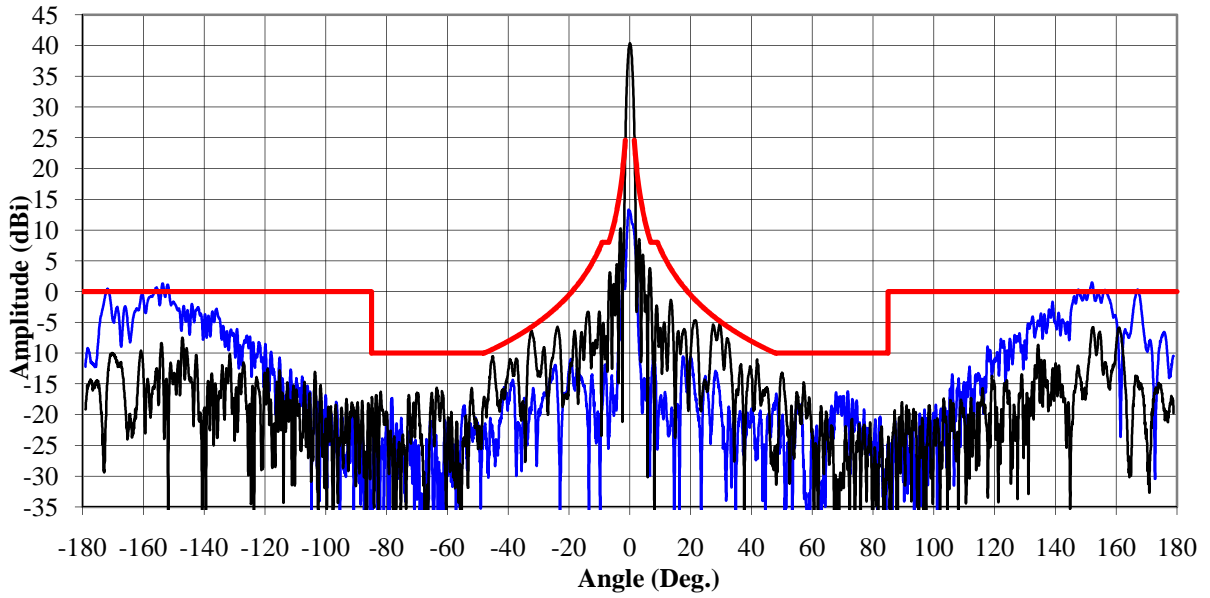
**Surfbeam-2 User Terminal**  
**Rx Az 19.95 GHz RHC**  
**Gain = 40.53 dBi**



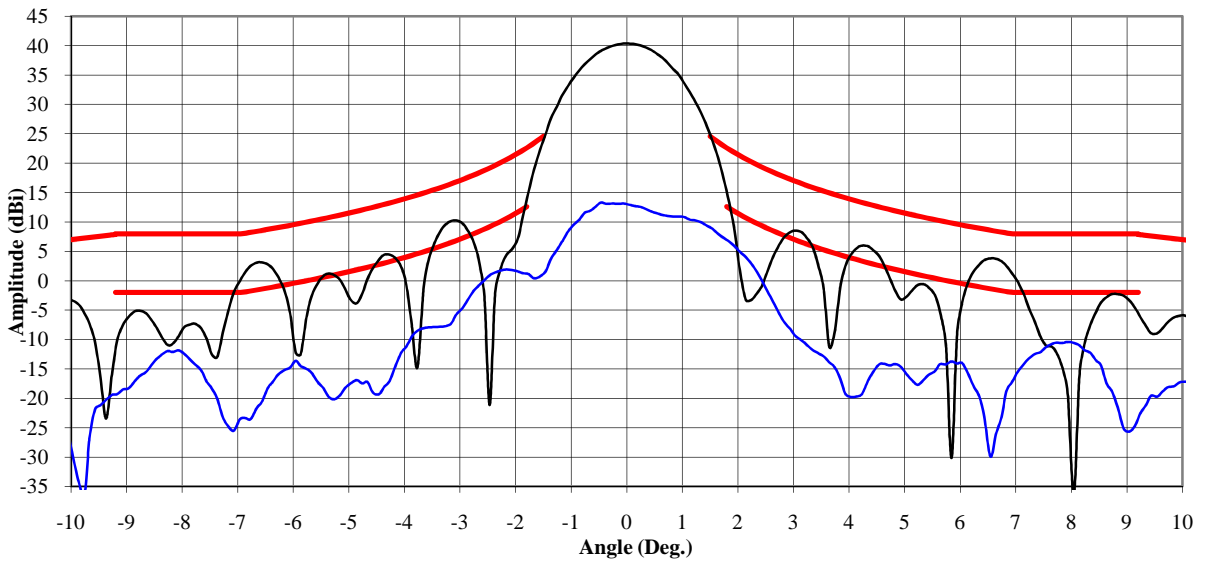
**Surfbeam-2 User Terminal**  
**Rx Az 19.95 GHz RHC**  
**Gain = 40.53 dBi**



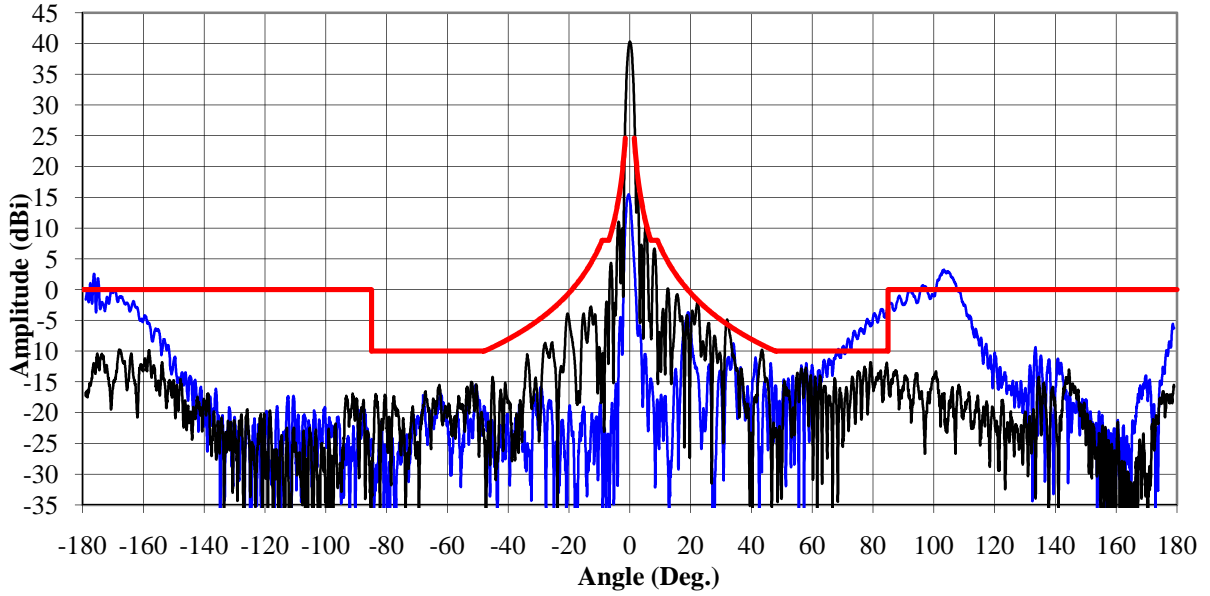
**Surfbeam-2 User Terminal**  
**Rx Az 20.20 GHz RHC**  
**Gain = 40.36 dBi**



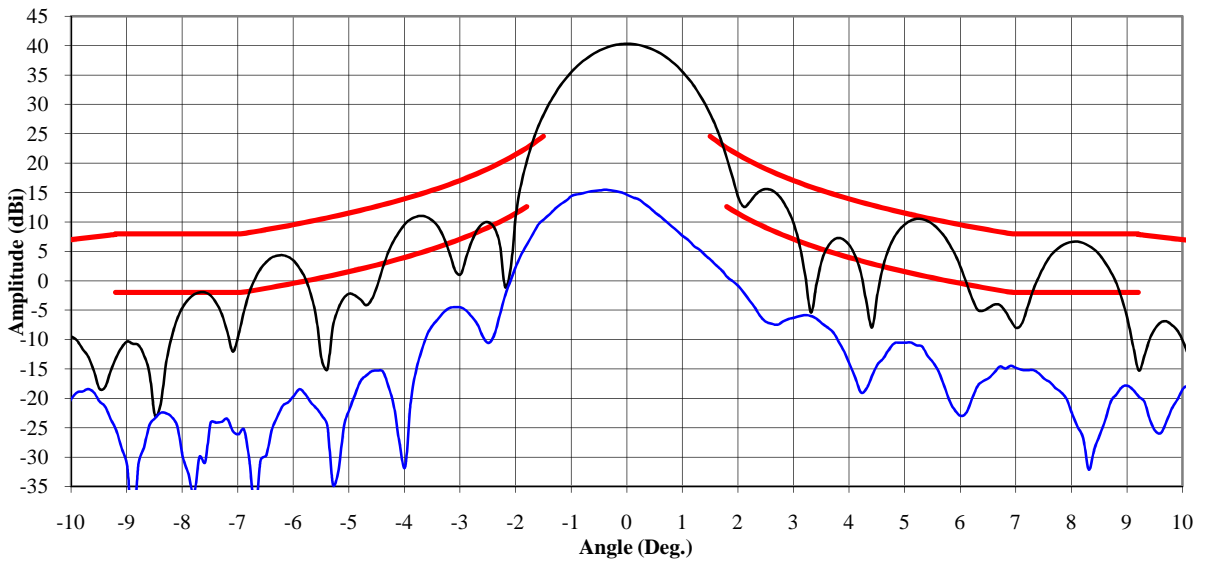
**Surfbeam-2 User Terminal**  
**Rx Az 20.20 GHz RHC**  
**Gain = 40.36 dBi**



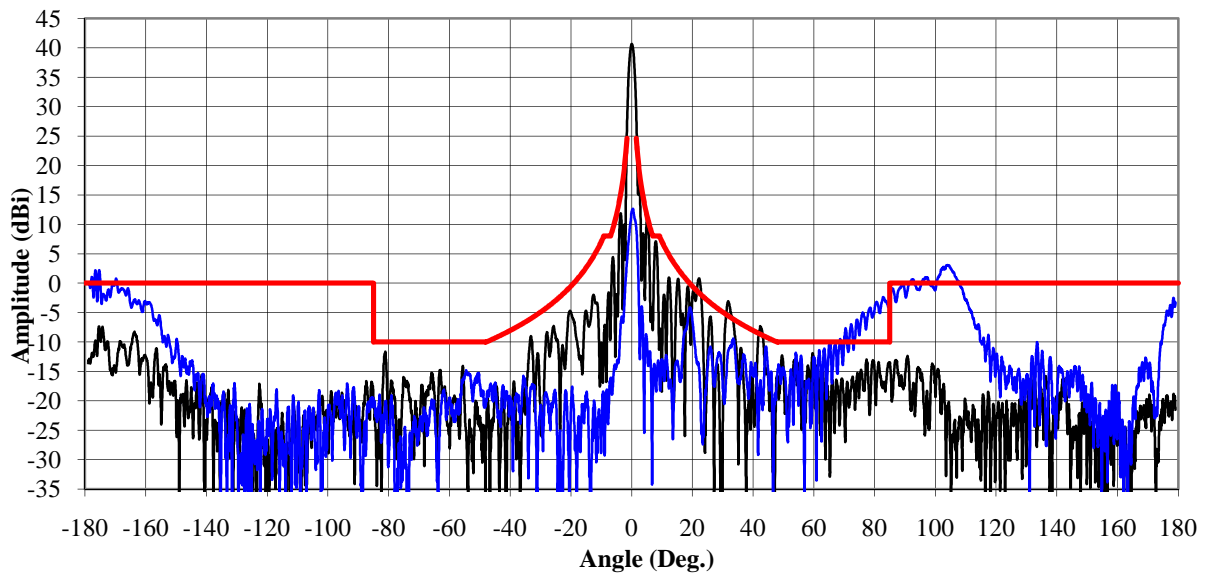
**Surfbeam-2 User Terminal**  
**Rx El 19.70 GHz LHC**  
**Gain = 40.31 dBi**



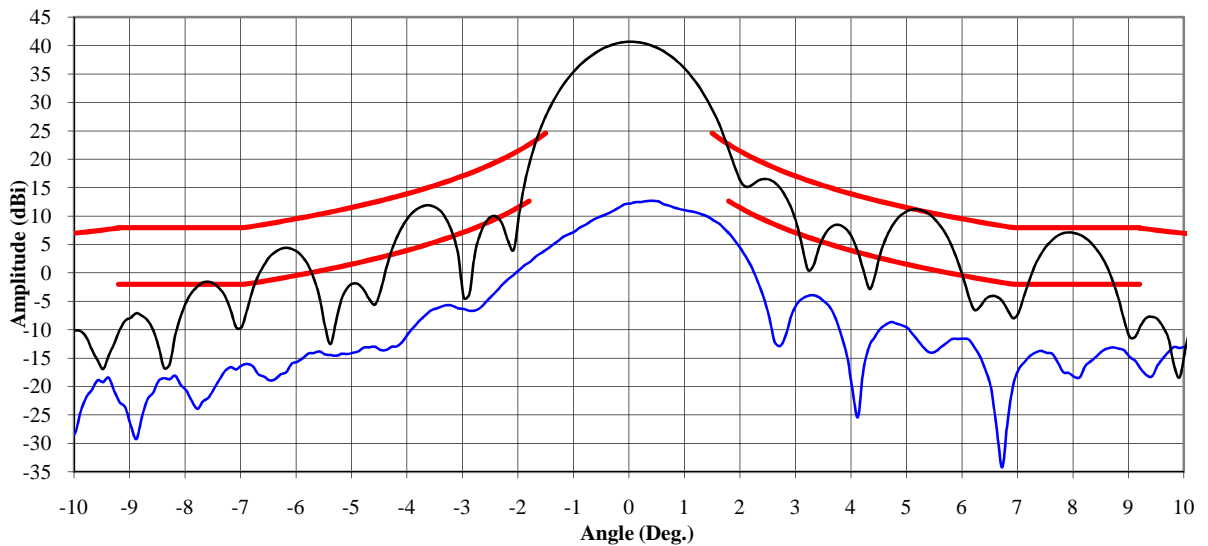
**Surfbeam-2 User Terminal**  
**Rx El 19.70 GHz LHC**  
**Gain = 40.31 dBi**



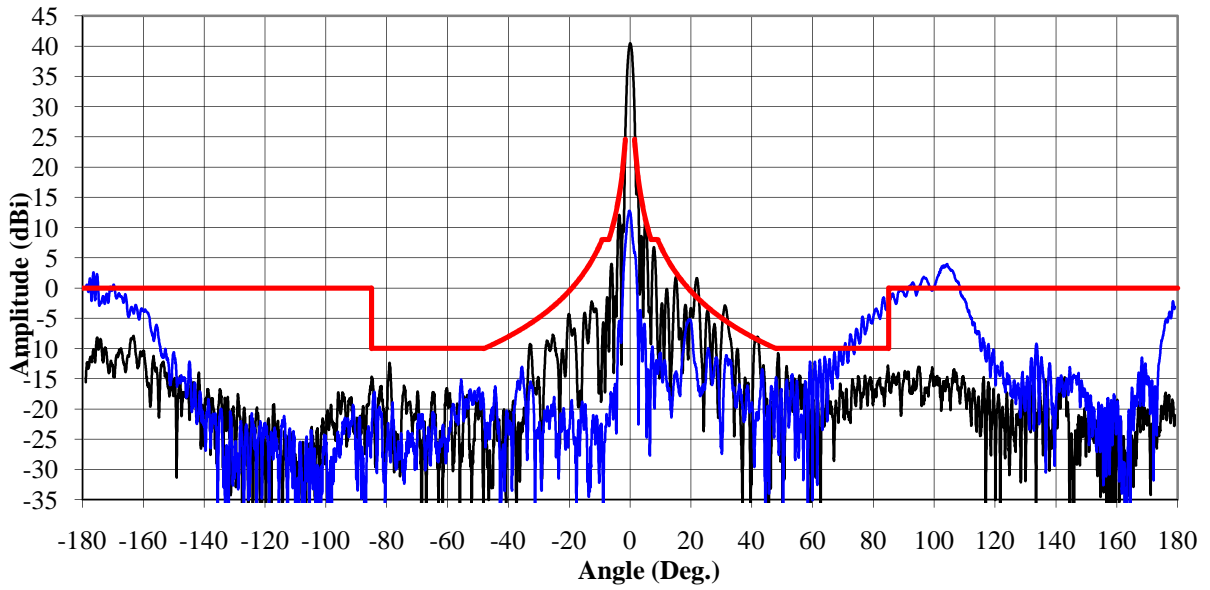
**Surfbeam-2 User Terminal**  
**Rx El 19.95 GHz LHC**  
**Gain = 40.60 dBi**



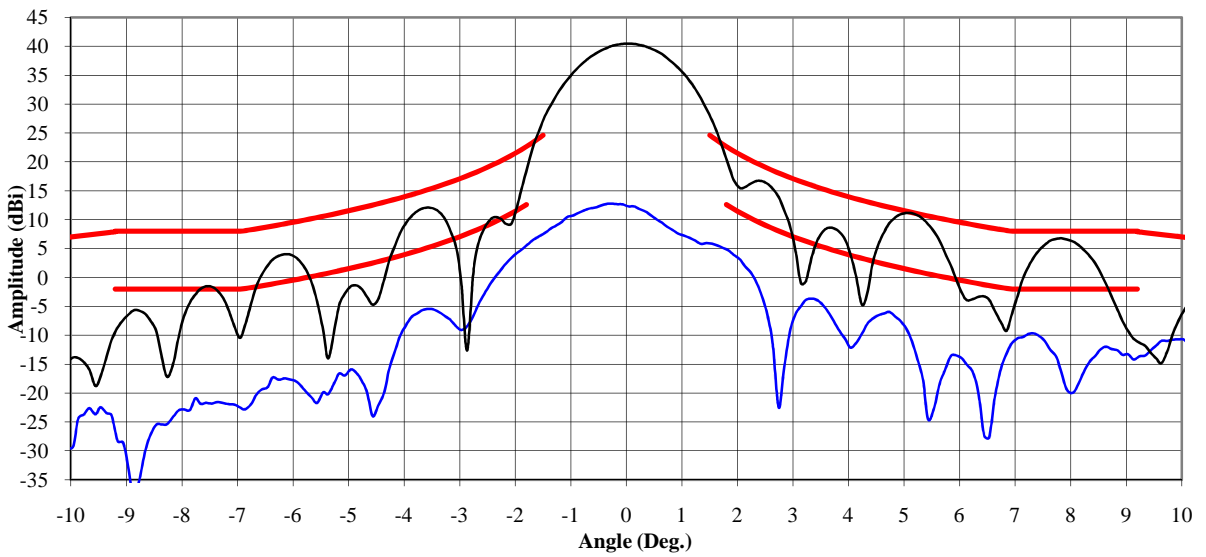
**Surfbeam-2 User Terminal**  
**Rx El 19.95 GHz LHC**  
**Gain = 40.60 dBi**



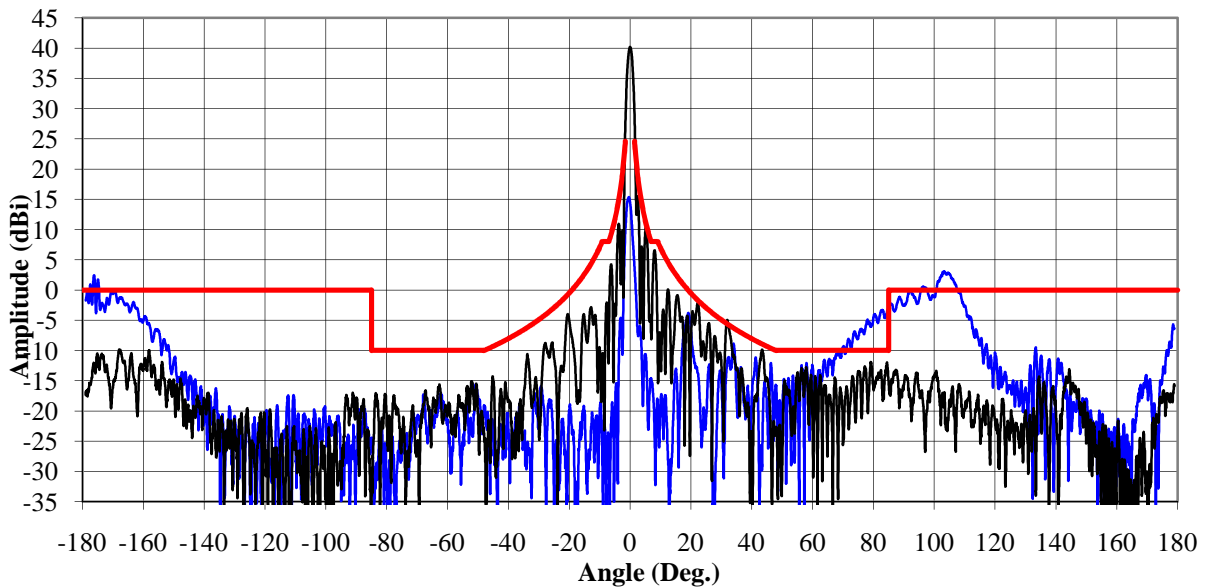
**Surfbeam-2 User Terminal**  
**Rx El 20.20 GHz LHC**  
**Gain = 40.40 dBi**



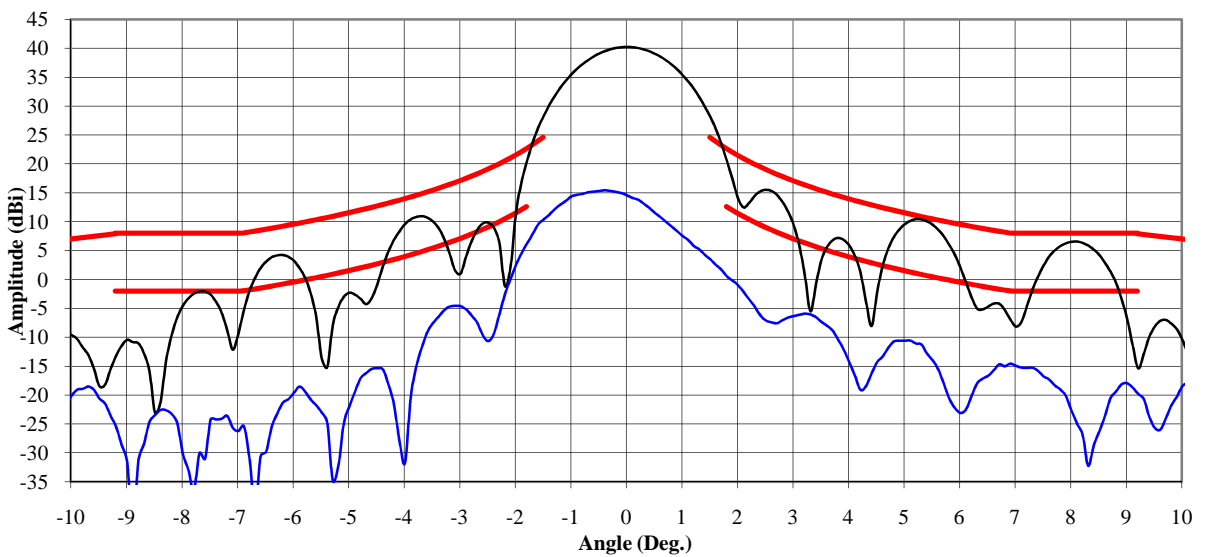
**Surfbeam-2 User Terminal**  
**Rx El 20.20 GHz LHC**  
**Gain = 40.40 dBi**



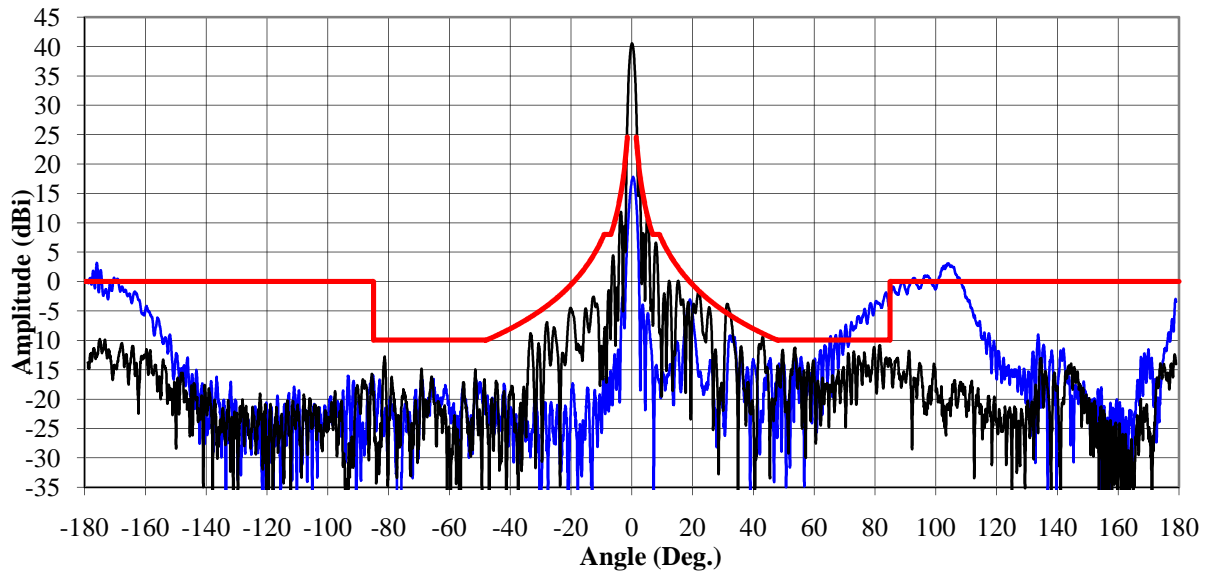
**Surfbeam-2 User Terminal**  
**Rx El 19.70 GHz RHC**  
**Gain = 40.23 dBi**



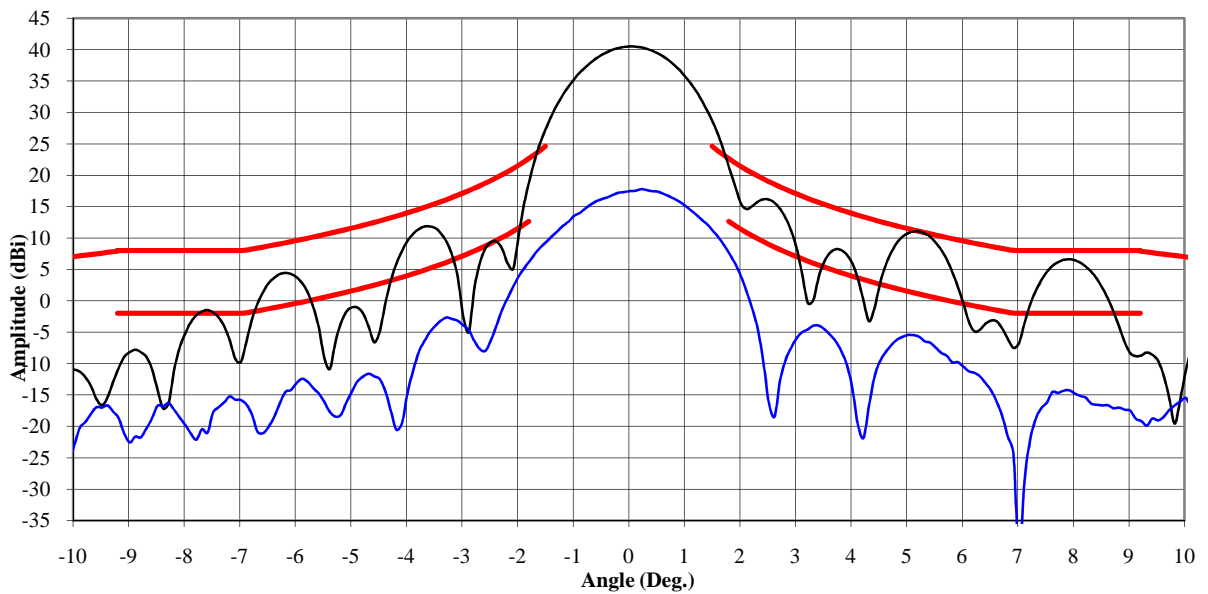
**Surfbeam-2 User Terminal**  
**Rx El 19.70 GHz RHC**  
**Gain = 40.23 dBi**



**Surfbeam-2 User Terminal**  
**Rx El 19.95 GHz RHC**  
**Gain = 40.53 dBi**

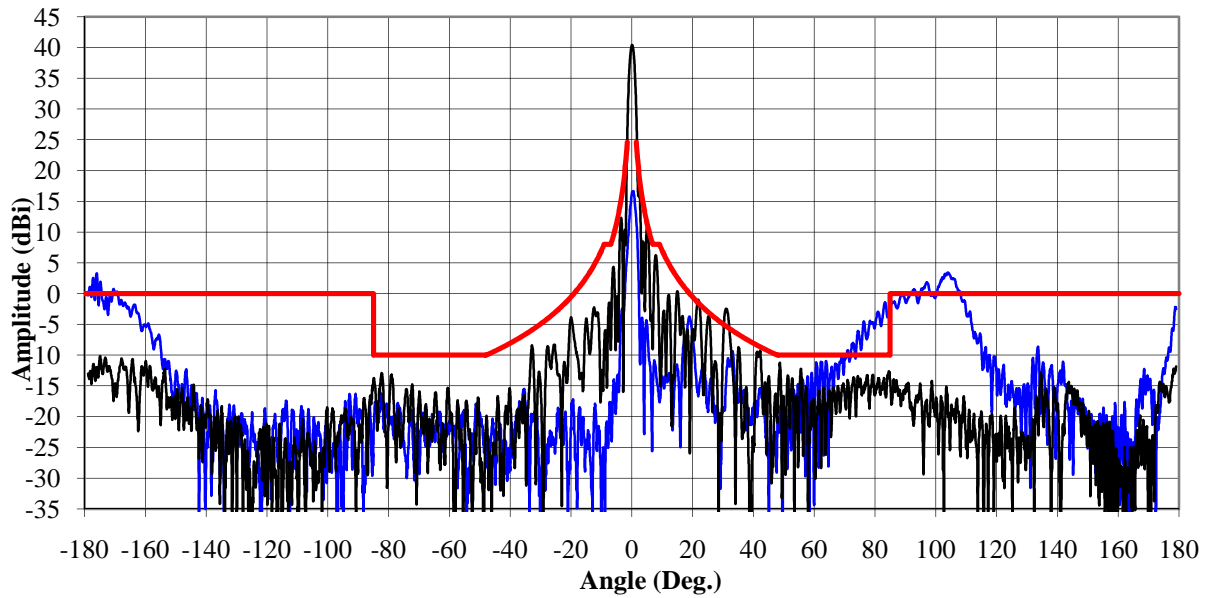


**Surfbeam-2 User Terminal**  
**Rx El 19.95 GHz RHC**  
**Gain = 40.43 dBi**





**Surfbeam-2 User Terminal**  
**Rx El 20.20 GHz RHC**  
**Gain = 40.36 dBi**



**Surfbeam-2 User Terminal**  
**Rx El 20.20 GHz RHC**  
**Gain = 40.36 dBi**

