

TECHNICAL EXHIBIT
APPLICATION FOR DTV MAXIMIZATION
STATION WMBF-DT (FACILITY ID 83969)
MYRTLE BEACH, SOUTH CAROLINA
CH 32 530 KW (MAX-DA) 183 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WMBF-DT to maximize its post-transition facility. This application requests a construction permit (CP) for a digital television operation on channel 32, using its authorized DTV construction permit Dielectric TFU-26GTH-R 6T170 directional transmitting antenna.

Proposed Facilities

Station WMBF-DT proposes to operate DTV channel 32 with a directional effective radiated power (ERP) of 530 kilowatts and antenna height above average terrain (HAAT) of 183 meters. The transmitter site coordinates are:

33° 43' 50" North Latitude
79° 04' 32" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1. Figure 2 is a map showing the DTV predicted coverage contours. The predicted 48 dBu contour will encompass all of Myrtle Beach. The Myrtle Beach city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

Population Served

The herein proposed WMBF-DT “maximized” facility is predicted to serve 362,771 persons, post-transition, based upon the 2000 Census. WMBF-DT’s associated Appendix B facility is predicted to serve 334,000 persons. Therefore, the herein proposed WMBF-DT facility would serve more than 100% of WMBF-DT’s Appendix B population.

Allocation Considerations

The proposed WMBF-DT operation meets the FCC’s 0.5% post-transition interference standards to pertinent Class A and DTV facilities using the procedures outlined in the FCC’s OET-69 Bulletin and a standard 2 kilometer cell size and 1 kilometer terrain distance increment.

Radiofrequency Electromagnetic Field Exposure

The proposed WMBF-DT facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 184.7 meters above ground level with an ERP of 530 kW. A conservative relative field value of 0.15 was assumed for the calculation (see Figure 3). The calculated power density at a point 2 meters above ground level will not exceed 0.012 mW/cm². This is less than 5% of the FCC's recommended limit of 0.39 mW/cm² for channel 32 for an “uncontrolled” environment.

Access to the transmitting site will be restricted and appropriately marked with warning signs. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to

radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the station is at reduced power or shut down. The proposed WMBF-DT operation appears to be otherwise categorically excluded from environmental processing.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.



Jonathan N. Edwards

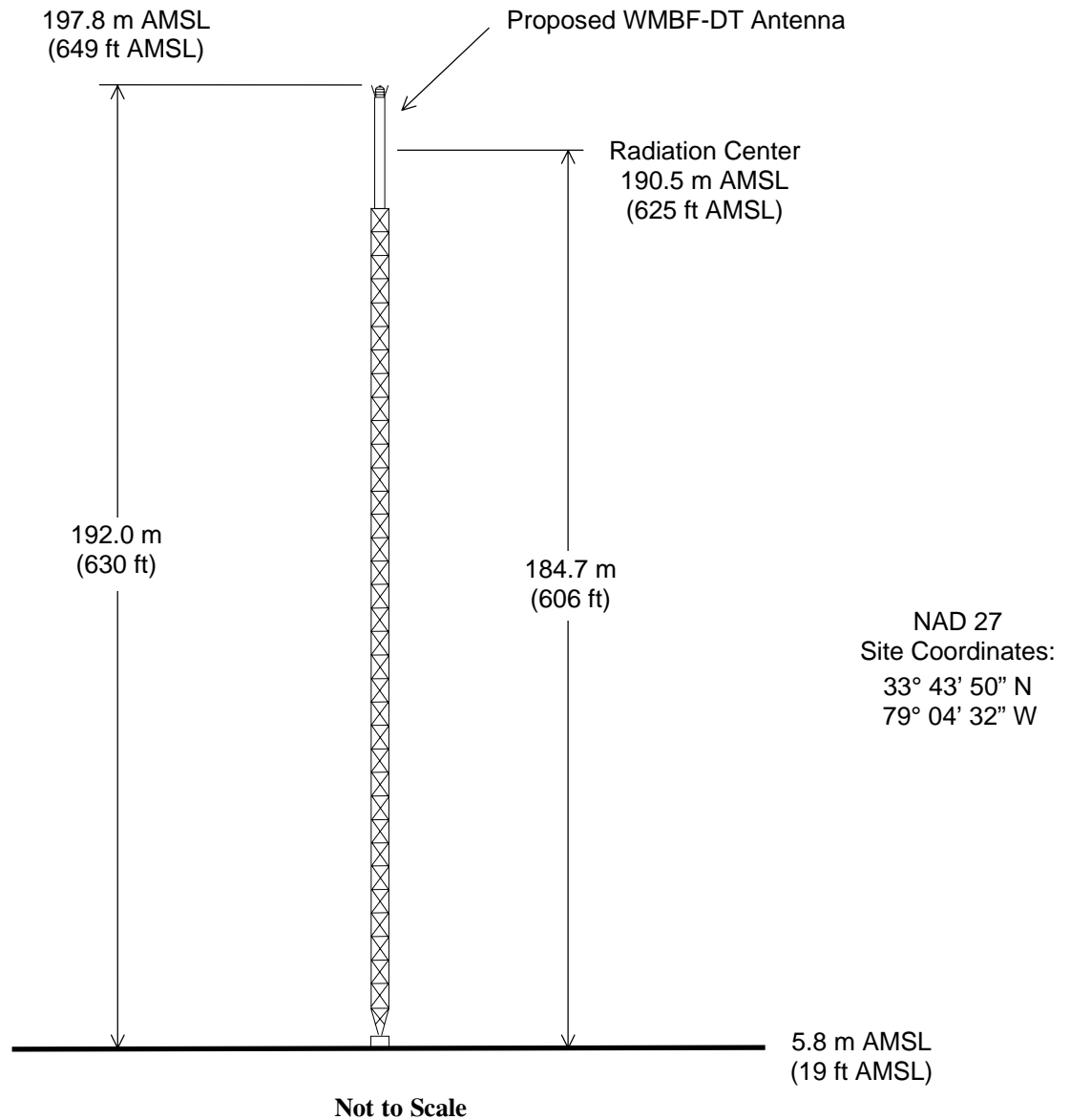
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
(941) 329-6000
JON@DLR.COM

June 18, 2008

Figure 1



ASRN: 1256984



ANTENNA AND SUPPORTING STRUCTURE

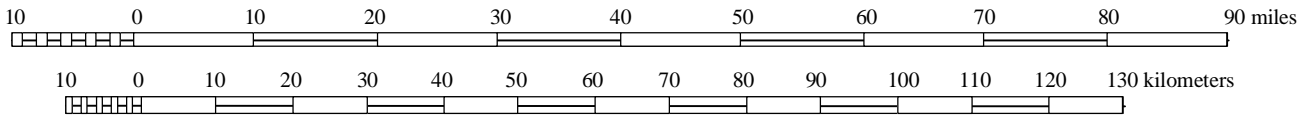
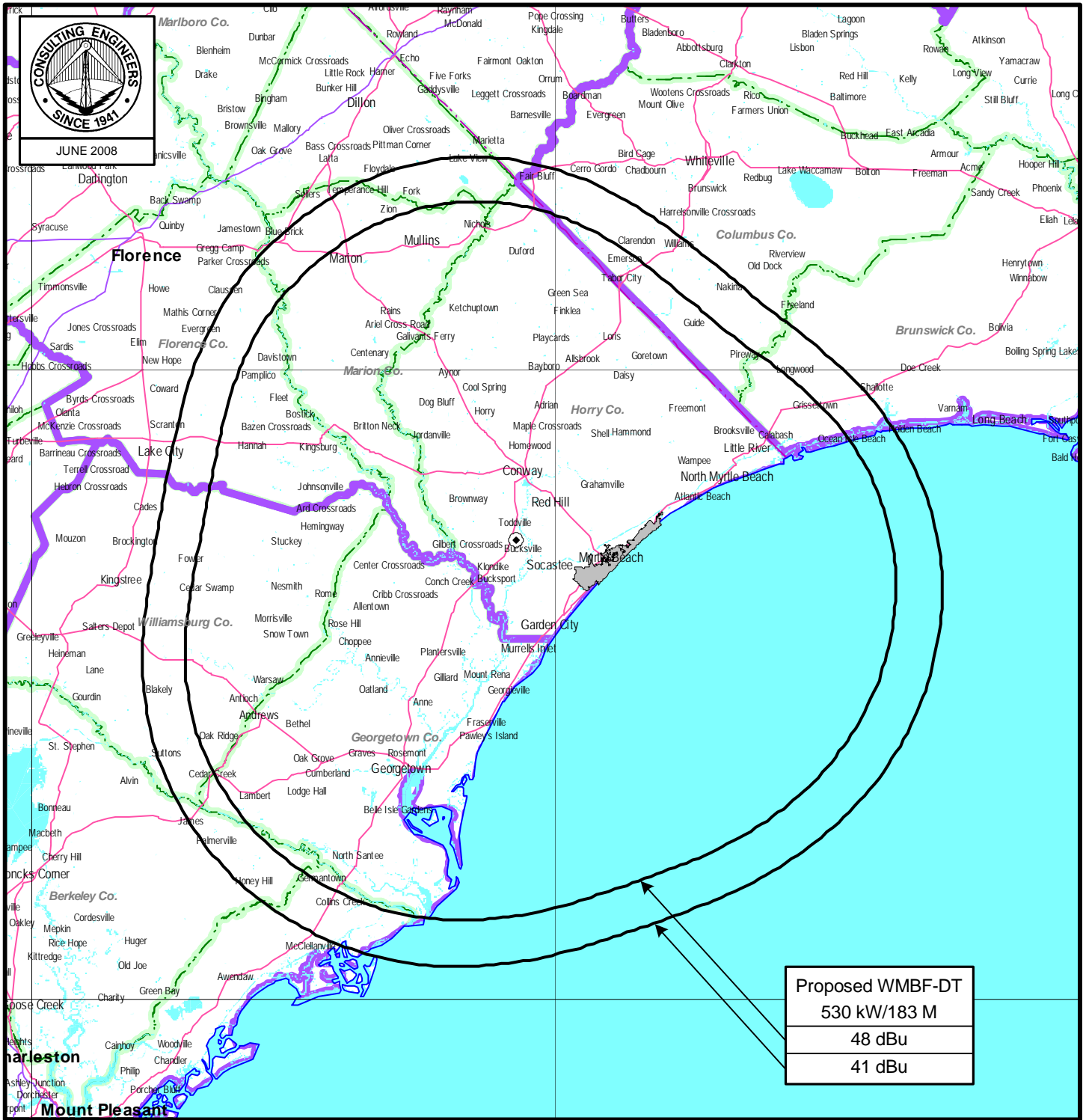
STATION WMBF-DT

MYRTLE BEACH, SOUTH CAROLINA

CH 32 530 KW (MAX-DA) 183 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



PREDICTED COVERAGE CONTOURS

STATION WMBF-DT

MYRTLE BEACH, SOUTH CAROLINA

CH 32 530 kW (MAX-DA) 183 M

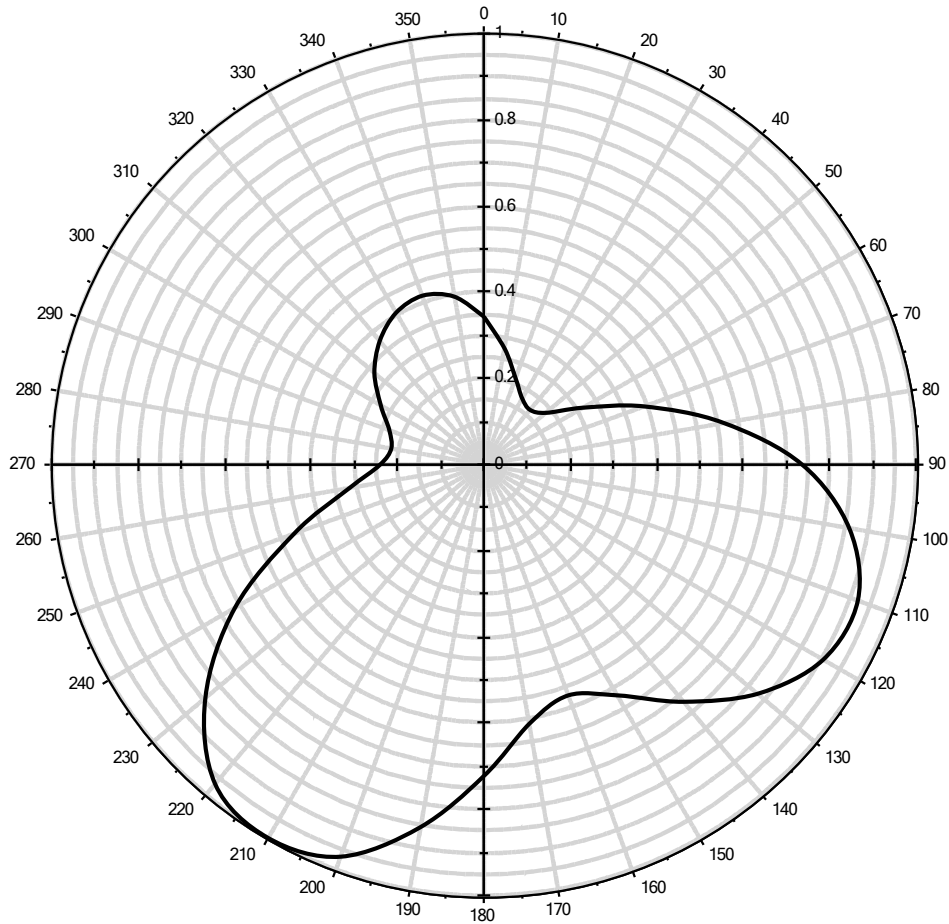
du Treil, Lundin & Rackley, Inc Sarasota, Florida

DA Inquiry

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Antenna Pattern: Antenna ID: 77954



Note: display reflects rotation of 0.00°

Antenna Details:

0°	0.344	60°	0.264	120°	0.906	180°	0.723	240°	0.666	300°	0.276
10°	0.274	70°	0.395	130°	0.827	190°	0.855	250°	0.468	310°	0.331
20°	0.214	80°	0.562	140°	0.718	200°	0.968	260°	0.317	320°	0.375
30°	0.177	90°	0.737	150°	0.618	210°	1.000	270°	0.240	330°	0.407
40°	0.166	100°	0.859	160°	0.570	220°	0.968	280°	0.218	340°	0.417
50°	0.187	110°	0.921	170°	0.610	230°	0.842	290°	0.233	350°	0.396

Antenna Make: DIE

Standard Pattern:

Antenna Model: TFU-26GTH-R 6T170

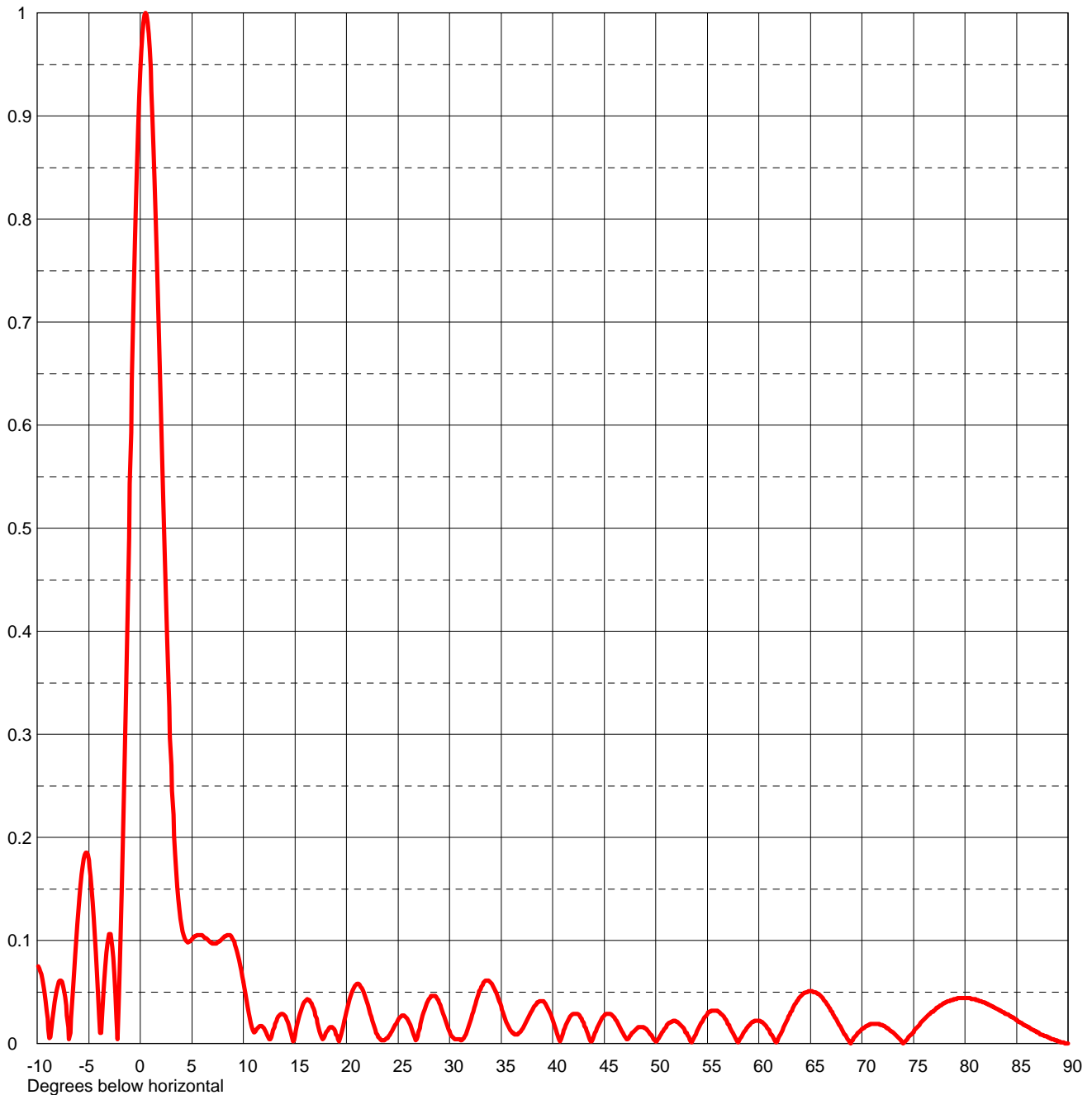
Last Change Date:



Date	19 Jun 2008		
Call Letters	WMBF-DT	Channel	32
Location	Myrtle Beach, SC		
Customer			
Antenna Type	TFU-26GTH 6T170		

ELEVATION PATTERN

RMS Gain at Main Lobe	24.0 (13.80 dB)	Beam Tilt	0.50 Degrees
RMS Gain at Horizontal	21.3 (13.28 dB)	Frequency	581.00 MHz
Calculated / Measured	Calculated	Drawing #	26G240050-90



Remarks: