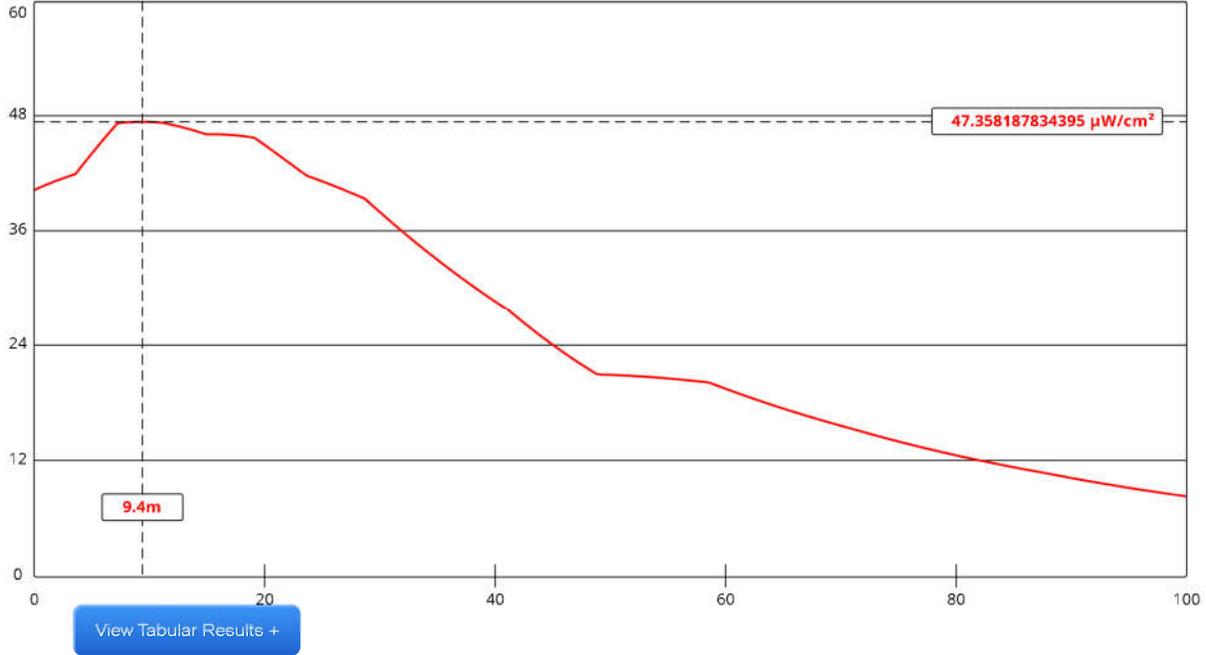


Power Density VS Distance
KOGJ, Kenai, AK FAC# 174802
July 27, 2023



Channel Selection	Channel 201 (88.1 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="43"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text"/>	ERP-V (W)	<input type="text" value="2500"/>
Num of Elements	<input type="text" value="1"/>	λ	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

USING A SINGLE ELEMENT, BEXT TFLBDI, EPA TYPE 1 ANTENNA, FM MODEL PREDICTS A MAXIMUM POWER DENSITY OF 47.4 MICROWATTS PER SQUARE CENTIMETER AT A DISTANCE OF 9.4 METERS FROM THE TOWER. THIS REPRESENTS 28.7% OF THE 200 MICROWATS PER SQUARE CM LIMIT FOR GENERAL POPULATION EXPOSURE, SO THIS PROPOSAL IS THERFORE COMPLIANT WITH THE GUIDELINES FOR HUMAN EXPOSURE AS SPECIFIED IN OET BULLETIN NO. 65, EDITION 97-01, AUGUST 1997. PLEASE REFER TO THE ATTACHED POWER DENSITY VS DISTANCE GRAPH.