

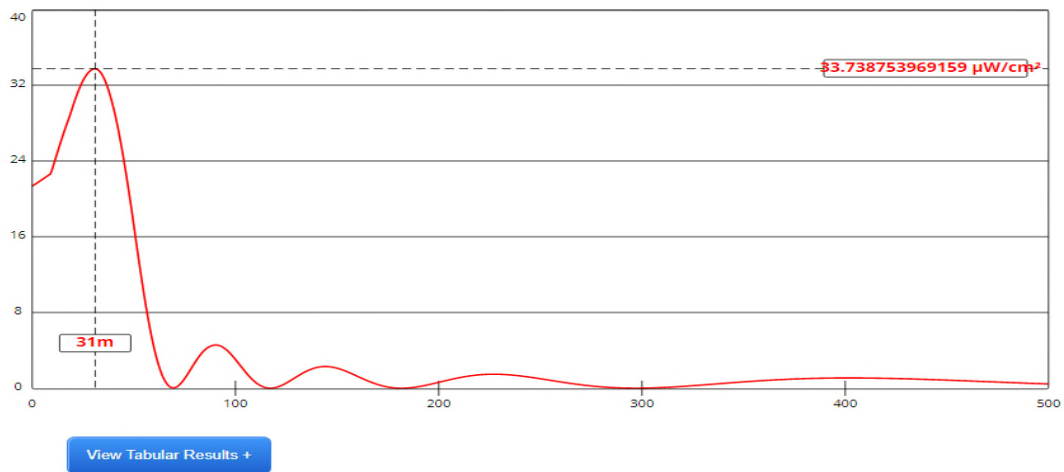
# ***Columbus, GA - WYFK(FM) License Modification Compliance with Radiofrequency Radiation Guidelines***

The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 of the Commission's rules and the RF radiation protection guidelines as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). The site is intended to house this single transmitter, therefore the potential for human exposure to non-ionizing radiofrequency radiation has been evaluated with regard to §1.1310 utilizing the Commission's own FM Model web-based software application. The use and implementation of this FCC sanctioned software is a matter of record before the Commission.

The maximum permissible uncontrolled limit  $200 \mu\text{W}/\text{cm}^2$ . The maximum permissible controlled limit is  $1000 \mu\text{W}/\text{cm}^2$ . Therefore single contributions of  $\leq 200 \mu\text{W}/\text{cm}^2$  remain within the tolerances as allowed by §1.1310 and its governing OET Bulletin No. 65 (Edition 97-01) for the more restrictive of these two protections.

The modified WYFK(FM) - Columbus, GA analog FM station (Facility ID: 5144) operates on CH208C2 (89.5 MHz) with 50.0 kW ERP circular polarization (H&V). The station broadcasts from an antenna COR mounted 107 meters above ground level (AGL). The facility operates with a six bay, PSI Model PSIFH-6E "Opposed V Dipole" antenna employing EPA Type 2 elements as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). The elements are spaced 1.0 wavelength ( $\lambda$ ) apart. This facility will not operate with HD/IBOC facilities at this time.

The results of the evaluation for the FM station have been shown at the end of this RF compliance discussion. To ensure complete protection, the maximum FM contribution has been assumed without regard to any restricted access fencing distance. In addition, the facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. Furthermore, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.



Channel Selection	Channel 208 (89.5 MHz) ▾		
Antenna Type +	EPA Type 2: Opposed V Dipole ▾		
Height (m)	107	Distance (m)	500
ERP-H (W)	50000	ERP-V (W)	50000
Num of Elements	6	Element Spacing ( $\lambda$ )	1
Num of Points	500	<b>Apply</b>	