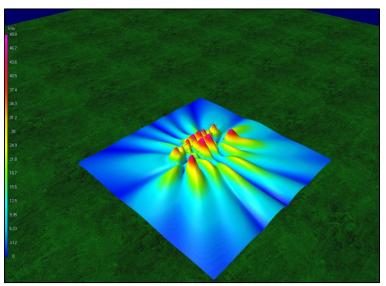


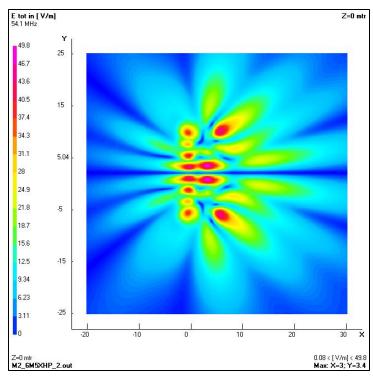
Total Input Power = 40 kW

Effective Power Radiated = 100%

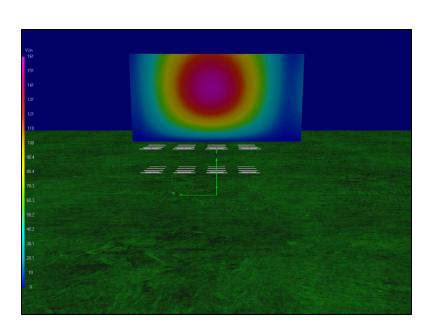
Worst case scenario.

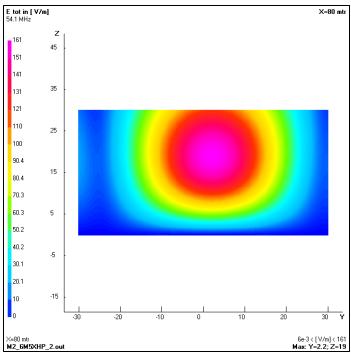
Near Field Distribution along the perfect ground plane



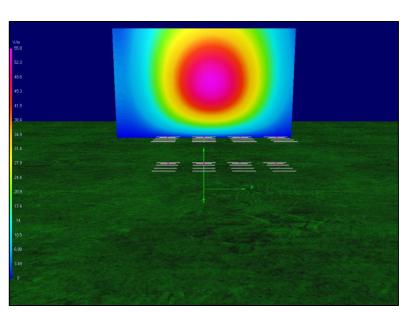


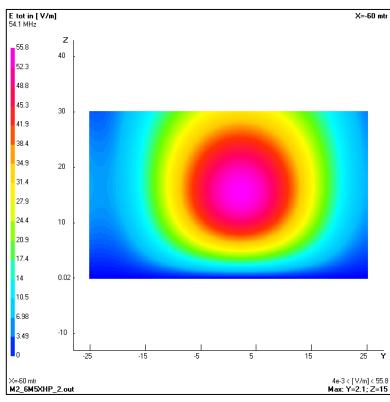
Near Field Distribution 80 m along the front lobe



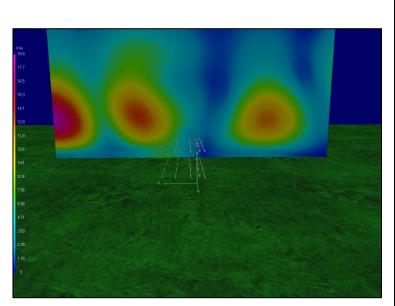


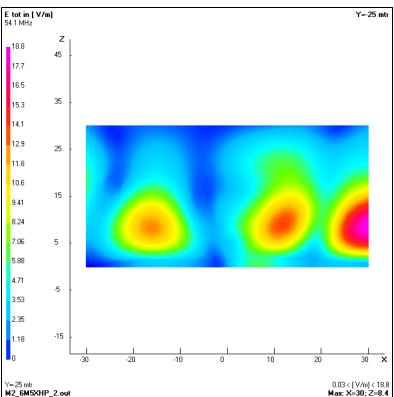
Near Field Distribution 60 m behind the back lobe



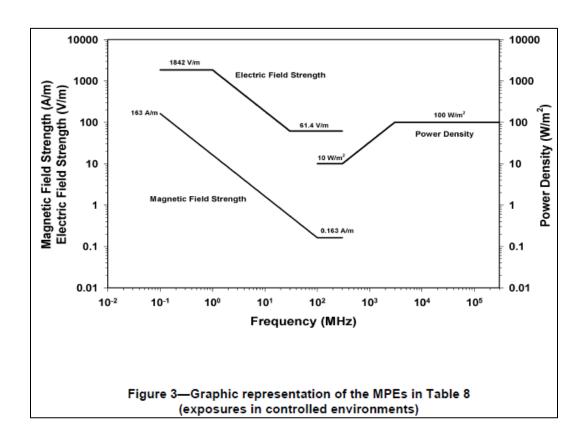


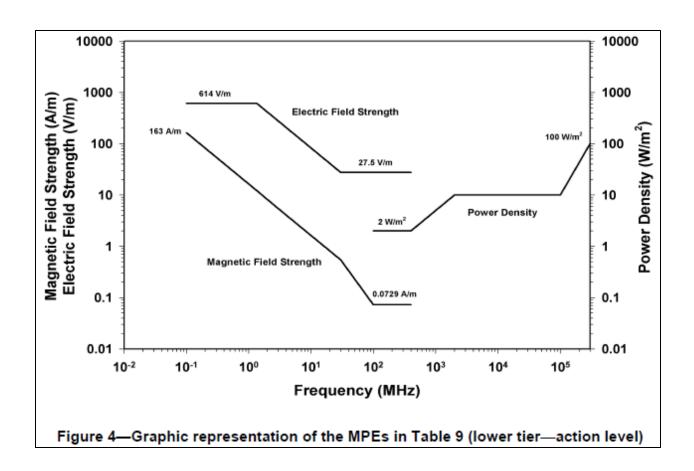
Near Field Distribution 25 m from the array transmitter building side.





IEEE RF safety standards (2005).





TO RADIO FREQUENCY ELECTROMAGNETIC FIELDS, 3 kHz TO 300 GHz

IEEE Std C95.1-2005

Table 9—Action level (MPE for the general public when an RF safety program is unavailable) (see Figure 4 for graphical representation)

Frequency range (MHz)	RMS electric field strength (E) ^a (V/m)	RMS magnetic field strength (H) ^a (A/m)	RMS power density (S) E-field, H-field (W/m²)	Averaging time ^b $ E ^2$, $ H ^2$ or S (min)	
0.1-1.34	614	16.3/f _M	(1000, 100 000/f _M ²) ^c	6	6
1.34–3	823.8/f _M	16.3/f _M	$(1800/f_{\rm M}^2, 100\ 000/f_{\rm M}^2)$	$f_{\rm M}^{2}/0.3$	6
3–30	823.8/f _M	16.3/f _M	$(1800/f_{\rm M}^2, 100\ 000/f_{\rm M}^2)$	30	6
30–100	27.5	158.3/f _M ^{1.668}	(2, 9 400 000/f _M ^{3.336})	30	$0.0636 f_{\mathrm{M}}^{1.337}$
100-400	27.5	0.0729	2	30	30
400–2000	-	_	f _M /200	30	
2000–5000	-	_	10	30	
5000-30 000	-	_	10	150/f _G	
30 000–100 000	-	-	10	25.24/f _G ^{0.476}	
100 000–300 000	_	_	(90f _G -7000)/200	5048/[(9f _G -700)f _G ^{0.476}]	

NOTE— f_M is the frequency in MHz, f_G is the frequency in GHz.

^aFor exposures that are uniform over the dimensions of the body, such as certain far-field plane-wave exposures, the exposure field strengths and power densities are compared with the MPEs in the Table. For non-uniform exposures, the mean values of the exposure fields, as obtained by spatially averaging the squares of the field strengths or averaging the power densities over an area equivalent to the vertical cross section of the human body (projected area) or a smaller area depending on the frequency (see NOTES to Table 8 and Table 9 below), are compared with the MPEs in the Table.

^bThe left column is the averaging time for $|E|^2$, the right column is the averaging time for $|H|^2$. For frequencies greater than 400 MHz, the averaging time is for power density S

^cThese plane-wave equivalent power density values are commonly used as a convenient comparison with MPEs at higher frequencies and are displayed on some instruments in use.