

# EMF Calculator Results



Richard Samphire MW0LGE, Magor, NP263BZ

MB7UNE - 1200 - 12/03/24

## Radio

Band	2m
Frequency	145.5MHz
Transmit mode	FM
Mode factor	100% (0dB)
Transmitter power	13W (11.1dBW)
Transmit % in 6 minutes	100% (0dB)
Average power from transmitter	13W (11.1dBW)
Peak power from transmitter	13W (11.1dBW)

## Feeder

Cable type	M&P Ultraflex 7
Loss per 100m	-6.9dB
Cable length	18m
Feeder loss	-1.2dB
Second feeder losses	0dB
Other losses	-0.5dB
Average power into antenna	8.7W (9.4dBW)
Peak power into antenna	8.7W (9.4dBW)

## Antenna

Antenna type	custom
Custom gain	4.5 (6.5dBi)
Mainlobe EIRP	38.9W (15.9dBW)
Antenna polarization	Vertical
Height of antenna	11m
Directivity factor	0dB
Average EIRP	38.9W (15.9dBW)
Peak EIRP	38.9W (15.9dBW)



**Further assessment required (average power >10W or peak power >100W EIRP)**

Please use one of the methods below

## ITU-T K.52

ICNIRP 1998 limits

<b>Compliance distance</b>	2m
Vertical separation	9.2m
Required horizontal separation	0m

## ITU-T K.52

ICNIRP 2020 limits

<b>Compliance distance</b>	2m
Vertical separation	9.2m
Required horizontal separation	0m