

Channel 1



#This is the hard copy of our bandedge measurement of channel 1.

1. The lobe right by the fundamental side is already 20dB below the highest emission level.
2. The spectrum plot extended inside the restriction band is also below -50dBm (57dBuV).

#Sample Calculation:

$$E = \frac{\sqrt{30PG}}{d}$$

$$\Rightarrow 20 \log E(\text{dBmV}) - 120\text{dB} = 20 \log \left(\frac{\sqrt{30PG}}{d} \right) = 10 \log \frac{10PG}{1}$$

$$= 10 \log P(\text{dBm}) - 30\text{dB} + 10 \log G(\text{dBi})$$

$$= -57\text{dBm} - 30\text{dB} - 0.8 + 120 = 32.2\text{dBmV} / m$$