

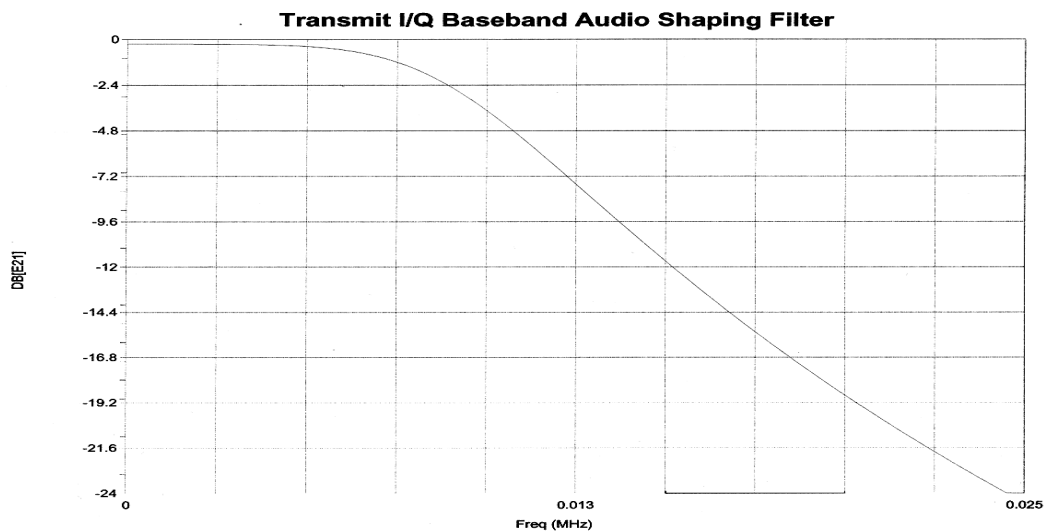
RESPONSE TO FCC (CORRESPONDENCE #22061)

1. Photographs will be submitted under separate cover.
- 2 and 3. This equipment implements a digital data stream through software GFSK modulation which shapes and constrains the Necessary Bandwidth. This is described in more detail in the "P-801T Detail Theory of Operation" submission, Section 7.3 (Page 8 of 22) Modulation Limiting:

“The P-801T supports the OpenSky Trunked Protocol (OTP). OTP supports the transfer of voice and data over a single channel. The information is transmitted through a 4 level Gaussian frequency shift keyed (GFSK) signal. The signal’s symbol rate is 9600 baud that corresponds to a 19.2Kbps data rate. The symbols are Gaussian filtered with a BBT = 0.7 and then frequency modulated with a modulation index of 1/3.”

Audio Filter Used For FM Transmission

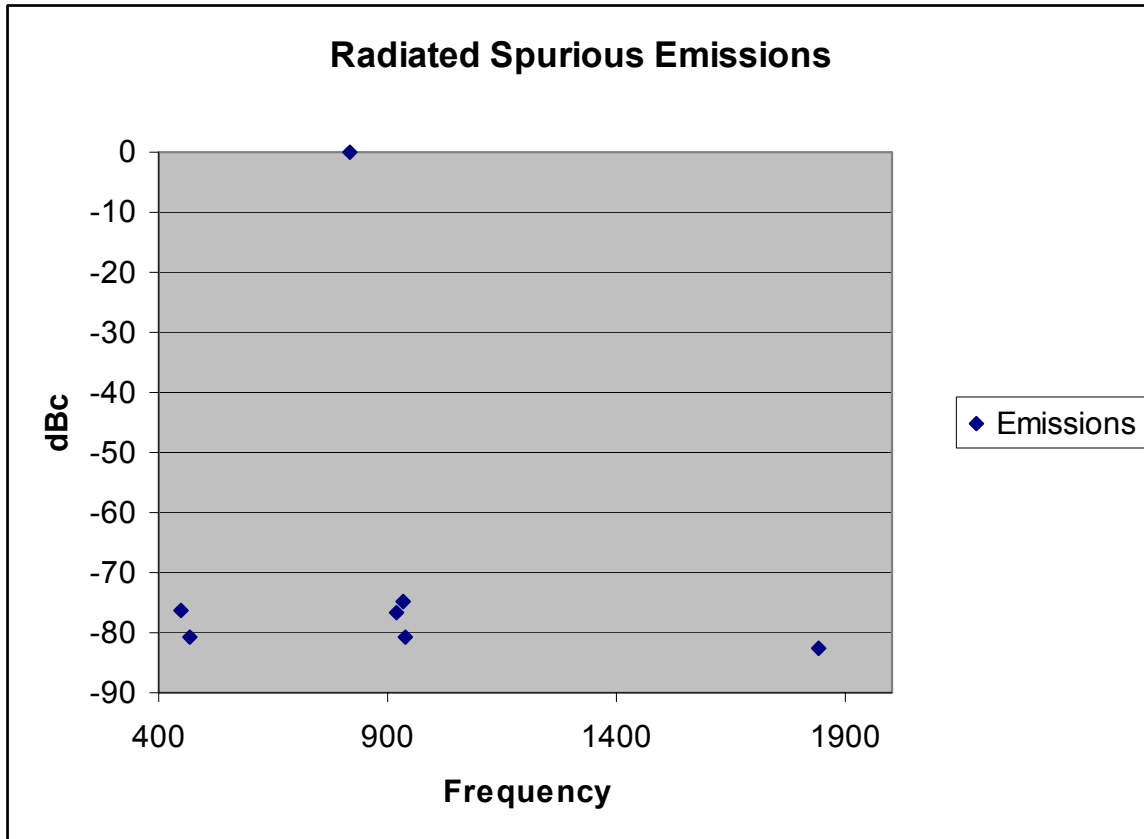
The Opensky P-801T Portable Radio transmitter includes lowpass filtering before and after FM modulation. The lowpass filter before modulation is shown below.



4. Radiated Spurious Emissions (dBc)

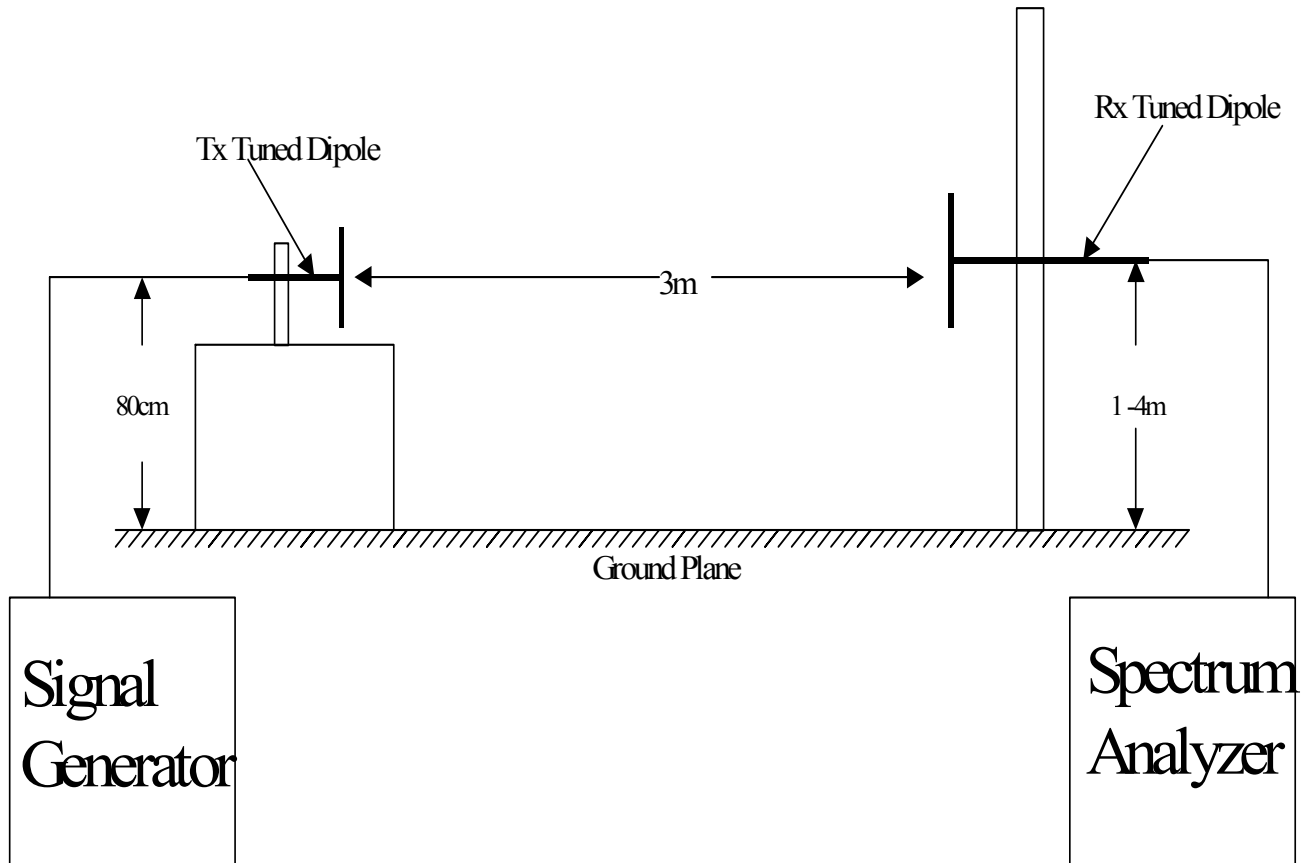
Radiated Spurious Emissions

Frequency MHz	450.5	466.9	816.3	921.03	931.3	938.9	1842
dBc	-76.3	-80.8	0	-76.8	-74.8	-80.8	-82.7
dBm	-41.5	-46	34.8	-42	-40	-46	-47.9



All measurements were made per TIA/EIA 603 1992.

Radiated Spurious Test Setup



5. With regard to question 5, Chomerics made Occupied Bandwidth Measurements (pp. 25 - 27 of your 18 January 2002 EMC Evaluation report). These were done at the 99.5% power levels and indicated the highest value as 13.3 kHz.

We therefore feel that we can use 13K5F1D and 13K5F1E as the emission designators.

Please note, that as a consequence of the software modulation limiting employed by this equipment, the equations for Necessary Bandwidth are not appropriate. We are defining the emission designators as 13.5