

ADRad Communications

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June 6, 2002

Federal Communications Commission

Reference: FCCID :

OKRMX800R2R3

Reference 731 Confirmation Number:

EA192481

Correspondence Reference Number:

23054

Applicant:

Spectra Engineering PTY LTD

Dear Sir or Madam:

In the measurement of ACCP, Spectra engineering has made use of TIA recommended measurement methods. The TIA has made these recommendations to the FCC regarding adjacent channel power ratio (ACPR). While we have not seen a confirmation from the FCC yet, we are filing assuming the changes are adopted. The major change is from an absolute power measurement to a relative power level. Accordingly we are filing with only the relative performance in dBc. A 700 portable public safety radio was granted FCC approval by only filing the relative performance using this method of measurement, so we are taking the same approach. Also, the name of the measurement according to the TIA recommendation would be changed from ACCP (adjacent channel coupled power) to ACPR. My understanding is that ACCP is a Motorola derived term which takes into account the receivers IF bandwidth in the measurement bandwidth. These measurement bandwidths are correct. Even though we are a 12.5 kHz channel radio system, the band is set up for 6.25 kHz, 12.5 kHz and 25 kHz systems. The first 3 offsets are for the 3 adjacent 6.25 kHz channels to our 12.5 kHz channel. The next 3 offsets are for the 3 25 kHz channels adjacent to the 3 6.25 kHz channels. Here are the base specifications TIA submitted to FCC for approval.

12.5 kHz Base Transmitter ACPR Requirements

Offset from Center Frequency (kHz)	Nominal Resolution Bandwidth (Hz)	Measurement Bandwidth (kHz)	Maximum ACPR (dB)
9.375	100	6.25	40
15.625	100	6.25	60
21.875	100	6.25	60
37.50	300	25.00	60
62.50	300	25.00	65
87.50	300	25.00	65
150.00	1000	100.00	65
250.00	1000	100.00	65
>400 to paired RX Band	30000	30 (swept)	80
In paired RX Band	30000	30 (swept)	100

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For Block A, the ">400 to paired RX band" means we measured out to 776 MHz and the paired RX band is 776 - 777 MHz. For Block B the ">400 to paired RX band we would have measured out to 792 MHz and the paired RX band is 792 - 794 MHz.

This is the information submitted in the test report just after section 2.202(g) under the heading ACCP Measurements. We trust that this is correct.

Concerning emissions in the 1559 to 1610 MHz, there are no harmonics or energy sources in this frequency range as can be seen in the radiated report submitted under this application. (section 27.53 subpart (e)). Any energy on frequencies outside the frequencies covered in the ACCP (ACPR) measurements is attenuated more than the requirement stated in section 27.53 subpart (d) sub (4) as reported in our technical report document.

Sincerely,

A handwritten signature in dark ink, appearing to read "Walter C Simciak", written in a cursive style.

Walter C Simciak
Chief Engineer