

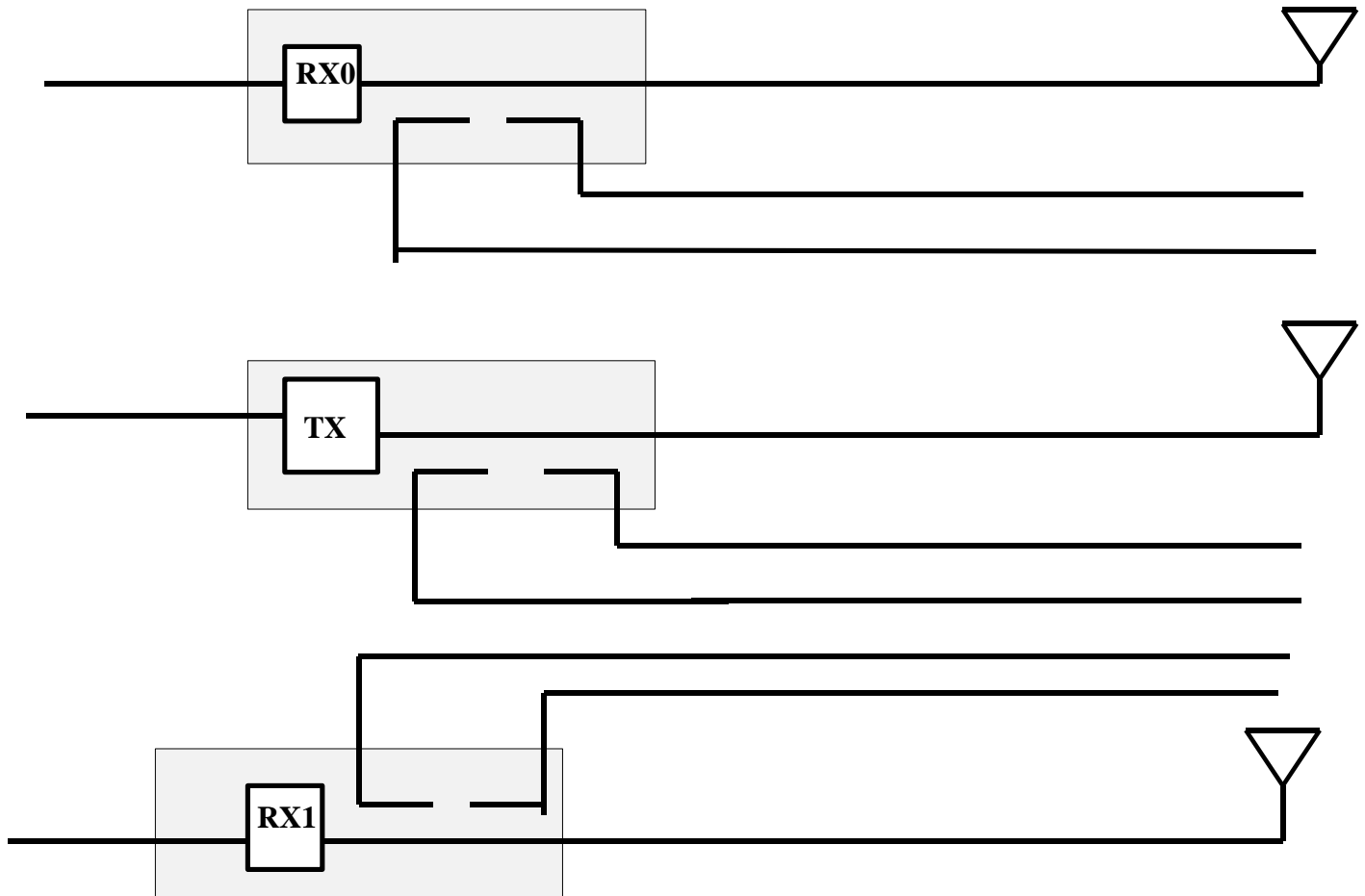
EXHIBIT 8

Section 2.1033 (c)(10): Description of circuitry and devices for suppression of spurious radiation.

Spurious emissions radiated from the FLEXENT™ Cellular TDMA Microcell J41698B-1 are suppressed by implementing sound Electromagnetic Compatibility (EMC) design practices extending from the circuit board level to the system level: 1) RF shielding on coaxial cables, 2) RF shielding “cans” mounted on the circuit packs, 3) effective grounding, 4) effective RF gasket mounted to the equipment door frame, 4) EMI filter on the AC power leads, and 5) effective simplex transmit and receive (TxSx and RxSx) bandpass filters for Cellular A-Band and B-Band. The filter characteristic plots are attached to this exhibit.

Simplex Configuration

A filter panel in a simplex configuration supports separate antennas for reception and for transmission as shown in the figure below. The physical separation of the antennas in simplex configurations provides isolation between the transmit and receive path. The isolation is at least 20 dB, therefore reducing the filtering required in the transmit path's receive band. Each filter panel also supports diversity receive (Rx0 and Rx1). This provides three independent RF paths: one transmit and two identical receive paths. Additionally, each of the three antenna ports contain a 30.0dB/ 30.0 dB bidirectional coupler for diagnostics. The simplex bandpass filters are passive devices and are realized by tuned cavities.



APPLICANT: Lucent Technologies

FCC ID: AS5CMP-33

EXHIBIT 8

FILTER CHARACTERISTIC PLOTS:

Cellular A-Band Transmit Bandpass Filter

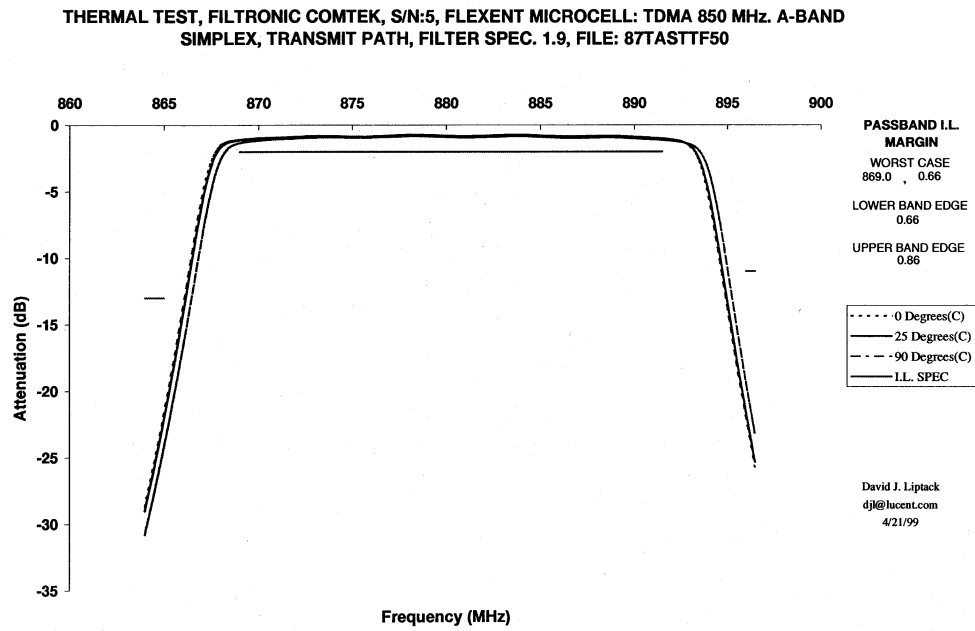


EXHIBIT 8

FILTER CHARACTERISTIC PLOTS:

Simplex A-Band Transmit Bandpass Filter

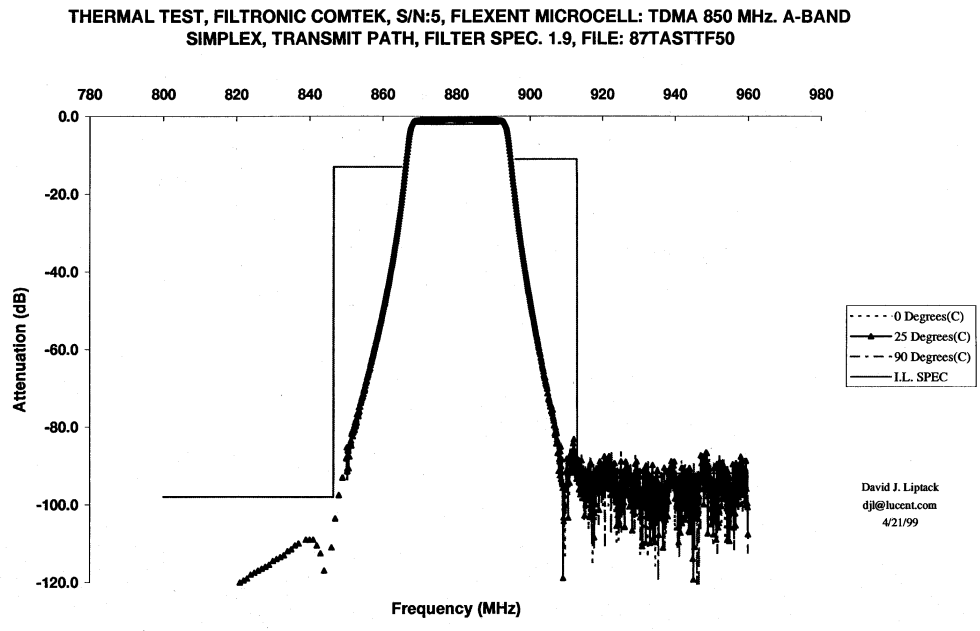
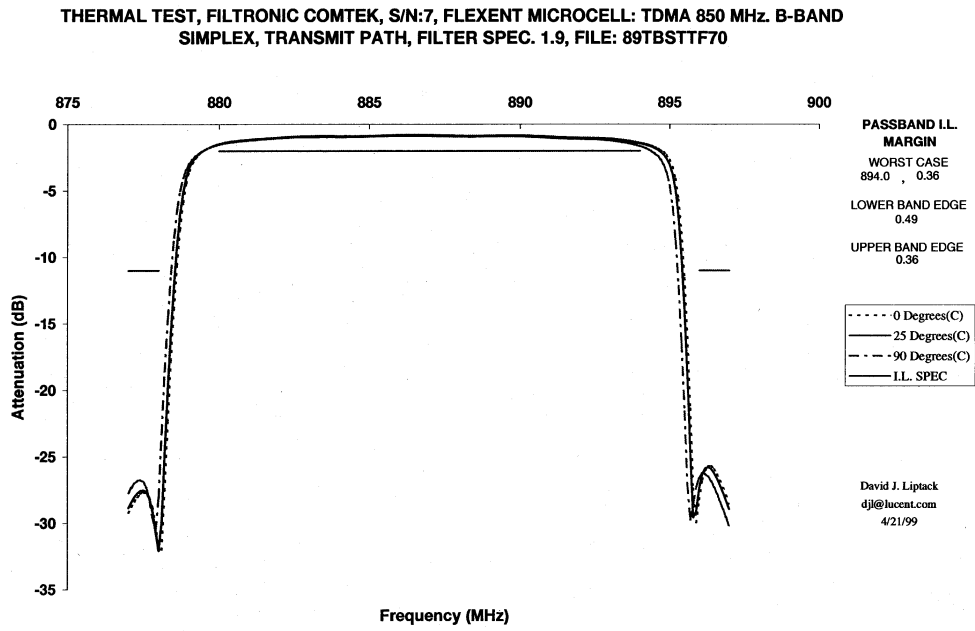


EXHIBIT 8

FILTER CHARACTERISTIC PLOTS:

Simplex B-Band Transmit Bandpass Filter



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EXHIBIT 8

FILTER CHARACTERISTIC PLOTS:

Simplex B-Band Transmit Bandpass Filter

