



RFx Exhibit Serial No.
042811TS5-T1098-S24C

RFx Exhibit Issue Date
May 24, 2011

RFx Exhibit Revision No.
Rev. 1.1 (2nd Release)



FCC RF EXPOSURE EXHIBIT - JUSTIFICATION FOR SAR EXCLUSION

Sendum Wireless Corp. Model: ET300 - Dual-Band CDMA Ankle-worn Tracking Bracelet FCC ID: TS5-6055M-ET300

Device Description & Mode(s) of Operation

The device is an Ankle-worn Offender Tracking Bracelet incorporating a GPS receiver and Dual-Band CDMA 1xRTT internal transceiver. The device is non-removable by the wearer. The dual-band CDMA antenna is located inside the ankle-worn casing. The antenna distance to the inside edge of the device (inner surface touching wearer's leg) is approximately 3 cm. The device utilizes 4 metal screws which are located behind the back plate and secure the ankle-strap to the device.

Duty Cycle

Under typical usage scenario, the transmitter is on every 30 minutes to communicate with the network. The transmitter-on duration is approximately 3-5 seconds. In the worst case scenario, the transmitter-on duration is 3-5 seconds per minute.

RF Output Power

Manufacturer's Rated Maximum Conducted Average Power and Tolerance Spec.:

24.0 dBm (+/- 0.5 dB) - 850 Band

23.5 dBm (+/- 0.5 dB) - 1900 Band

Manufacturer's Specified Maximum Transmitter-on Duration = 5 seconds per minute (8.3% Duty Cycle)

1. 850 Band - Source-Based Time-Averaged Conducted Output Power (inc. upper tolerance) = 13.7 dBm (23.4 mW)

$$60/f(0.835) \text{ mW} = 71.9$$

2. 1900 Band - Source-Based Time-Averaged Conducted Output Power (inc. upper tolerance) = 13.2 dBm (20.9 mW)

$$60/f(1.88) \text{ mW} = 31.9$$

RF Exposure Environment

The ET300 Ankle-worn Tracking Bracelet is intended for operation within the General Population / Uncontrolled RF exposure environment.

Analysis Summary

Based on the transmission modes, operating configurations and maximum source-based time-averaged output power and duty cycle as described in this document, SAR compliance is demonstrated for the Sendum Wireless Corporation ET300 Ankle-worn Tracking Bracelet without routine SAR measurements in accordance with FCC KDB Inquiry Tracking Number 174248.

RF Exposure Exhibit Revision History

REVISION NO.	DESCRIPTION	IMPLEMENTED BY	RELEASE DATE
1.0	Initial Release	Jon Hughes	May 12, 2011
1.1	Added last sentence to first paragraph (pg 1)	Jon Hughes	May 24, 2011
	Added Photos (pgs 5-7)		

Applicant:	Sendum Wireless Corp.	Model:	ET300	FCC ID:	TS5-6055M-ET300	
DUT Type:	Dual-Band CDMA Ankle-worn Tracking Bracelet	Tx Freq. Bands:	Cellular 850 / PCS 1900			
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ET300 Device Photographs



Ankle-worn Offender Tracking Bracelet with GPS Receiver & Dual-Band CDMA Transceiver

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Ankle-worn Offender Tracking Bracelet positioned on outer side of wearer's leg/ankle

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Ankle-worn Offender Tracking Bracelet positioned on inner side of wearer's leg/ankle

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Ankle-worn Offender Tracking Bracelet with ankle-strap and back plate attached

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Ankle-worn Offender Tracking Bracelet with ankle-strap and back plate removed (showing 4 metal screws)

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Back Plate

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