

SOP 1 Radiated RF Emissions

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Manufacturer Precision Time

Date September 1, 1999

Witness

Temp / Hum in 76 F / 42 %

EUT Name PT-Beltpack 100

Temp / Hum out NA

EUT Model PT-100

Line AC / Freq Battery

EUT Serial None

RBW / VBW 30 kHz / 300 kHz

Specification FCC Part 15 Subpart B

Detector Peak

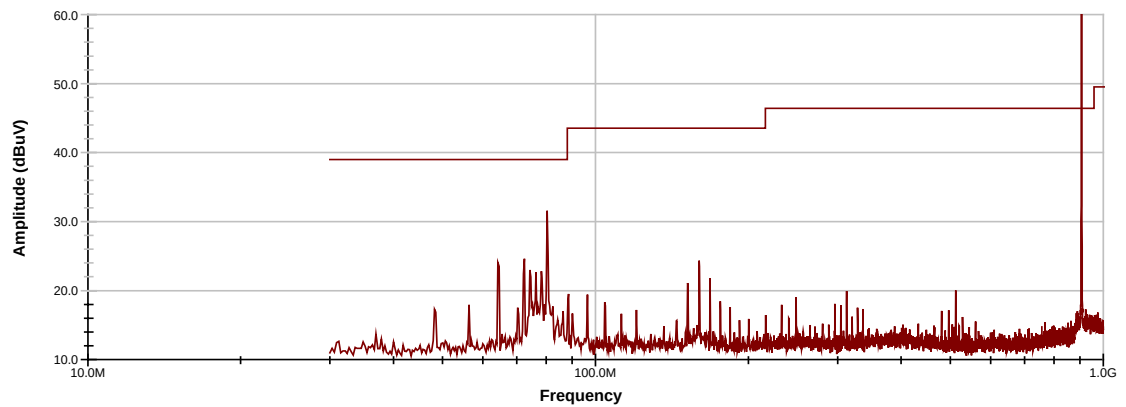
Test Method ANSI C63.4:1992

Distance 3 meters

Configuration

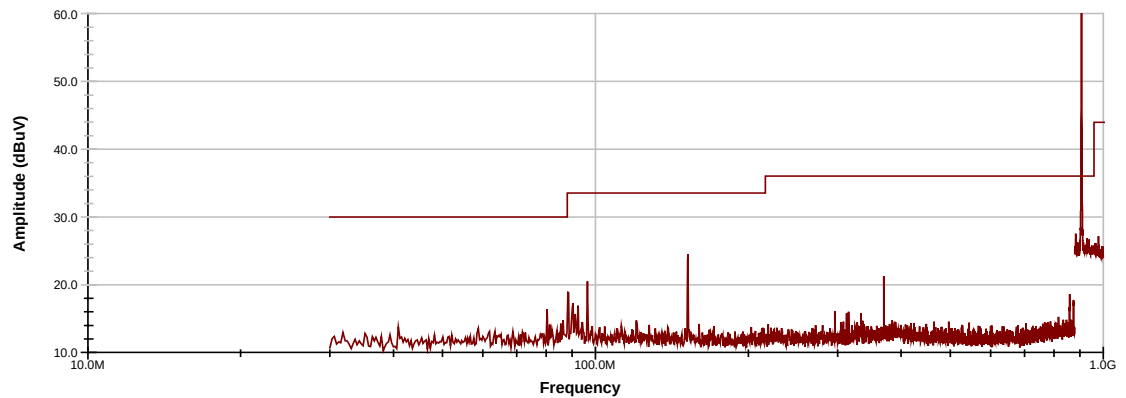
Radio Frequency Emissions Profile (Chamber)

Precision Time Portable
Peak Horizontal (30 - 1000 MHz)



Radio Frequency Emissions Profile (Chamber)

Precision Time Portable
Peak Vertical (30 - 1000 MHz)



SOP 1 Radiated RF Emissions

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Manufacturer Precision Time**Date** 08 Sep. 1999**Witness****Temp / Hum in****EUT Name** PT-Beltpack 100**Temp / Hum out****EUT Model** PT-100**Line AC / Freq** N/A**EUT Serial** None**RBW / VBW** See data**Specification** FCC Part 15.209**Detector** See data**Test Method** ANSI C63.4:1992**Distance** See data

Emission Freq (MHz)	ANT Polar (H/V)	ANT Pos (m)	Table Pos (deg)	FIM Value (dBUV)	Amp Gain (dB)	Cable Loss (dB)	ANT Factor (dB/m)	E-Field Value (dBUV/m)	(1) Spec Limit (dBUV/m)	Spec Margin (dB)
Quasi-Peak Measurements: (RBW / VBW = 120kHz / 300kHz, Detector = Quasi Peak, Distance = 3 meters)										
80.0	H	2.5		60.6	26	2.7	6.7	44.0	49.6	- 5.6
152.0	H	2.0		44.0	26	3.7	8.9	30.6	54.0	- 23.4
906.0	H	1.0		93.7	26	10.7	24.1	102.5	None	---
906.0	V	1.0		99.3	26	10.7	24.1	108.1	None	---
Average Measurements: (RBW / VBW = 1MHz / 30Hz, Detector = Peak, Distance = 3 meters)										
906.0	H	1.0		97.0	26	10.7	24.1	105.8	None	---
906.0	V	1.0		105.9	26	10.7	24.1	114.7	None	---
Average Measurements: (RBW / VBW = 1MHz / 30Hz, Detector = Peak, Distance = 1 meter)										
2718 (3 rd)	H	1.25		59.8	0	8.1	29.6	97.5	63.5	+ 34.0
3624 (4 th)	H	1.25		34.4	0	10.7	32.8	77.9	63.5	+ 14.4
4530 (5 th)	H	1.25		22.0	0	13.3	32.1	67.4	63.5	+ 3.9

08 October, 1999

Action: Change R83 from 10 Ohms to 22 Ohms, and added 47pF cap from base of Q6 to ground

2718 (3 rd)	H	1.25		24.7	0	8.1	29.6	62.4	63.5	-1.1
3624 (4 th)	H	1.25		18.4	0	10.7	32.8	61.9	63.5	-1.6
4530 (5 th)	H	1.25		13.9	0	13.3	32.1	59.3	63.5	-4.2

Spec Margin = E-Field Value - Limit, E-Field Value = FIM Value - Amp Gain + Cable Loss + ANT Factor $\pm$ UncertaintyCombined Standard Uncertainty $u_c(y) = \pm 1.6\text{dB}$ Expanded Uncertainty $U = k u_c(y)$ $k = 2$ for 95% confidenceNote (1): The Spec Limit was adjusted for measurements below 1 GHz from 10 meters to 3 meters and above 1 GHz from 3 meters to 1 meter using a correction factor of $20*[\text{Log}(d1/d2)]$.Performed by Dale Albright
(Name / Signature)Date 08 Sep. 1999EMC Supervisor Dale Albright
(Name / Signature)Date 08 Oct. 1999