

RADIO SUMMARY NEW ANTENNA

Project ID

PRJ0090423

Applicant:

Zoll Manufacturing

Product:

Data Terminal Module

Model:

LifeVest LV 5100

FCC ID:

W56LV51C2BW0

Specifications:

- ◆ FCC 47 CFR Part 27, Subpart C

Date of issue: June 16, 2026

Andrey Adelberg, Senior EMC/RF Specialist

Tested by

A handwritten signature in black ink that reads 'Andrey Adelberg'.

Signature

Section 1 Summary information

1.1 Applicant/Manufacturer

Applicant name	Zoll Manufacturing
Applicant address	121 Gamma Drive, Pittsburgh PA 15238 USA
Manufacturer name	Same as applicant
Manufacturer address	Same as applicant

1.2 EUT information

FCC ID:	W56LV51C2BW0
FRN:	0018524090
Description:	Data Terminal Module
Model:	LifeVest LV5100
Description/theory of operation	The LifeVest LV 5100 medical system is a wearable (portable) defibrillator. It detects and treats arrhythmias associated with sudden cardiac arrest. The wireless function of uploading the patient's data once per day is not part of the system's essential performance. Its function is to provide data to the physicians to enhance the care of the patient.

1.3 Transmitter info

Wireless technology	LTE (CAT-M1)
Frequency band	FCC Bands: 2, 4, and 12 EU Bands: B1, B2, B3, B4 ,B5, B8, B12, B13, B14, B18, B19, B20, B25, B26, B27, B28, B66, B85
OEM Manufacturer	Telit Cinterion
OEM Model	ME910G1-W3
Modulation	FDD
Antenna information	Type: Cellular Antenna 4.54 dBi (max)

1.4 EIRP verification

Table 1.4-1: EIRP verification results for FCC C2PC

Band	Transmitting f_{UL} (MHz)	Maximum Conducted Output Power Meas. (dBm)	Antenna gain (dBi)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Margin (dB)
2	1850 ~ 1910	23.52	4.54	28.06	33.01	4.95
4	1710 ~ 1755	23.46	2.87	26.33	30.00	3.67
12	699 ~ 716	23.77	1.25	25.02	36.92	11.90

Notes: Transmit power results are from the original OEM test report CN21FZKJ 001 issued by TÜV Rheinland (Shenzhen) Co., Ltd. on 2021-12-22

1.5 Radiated emissions verification scans with the new antenna

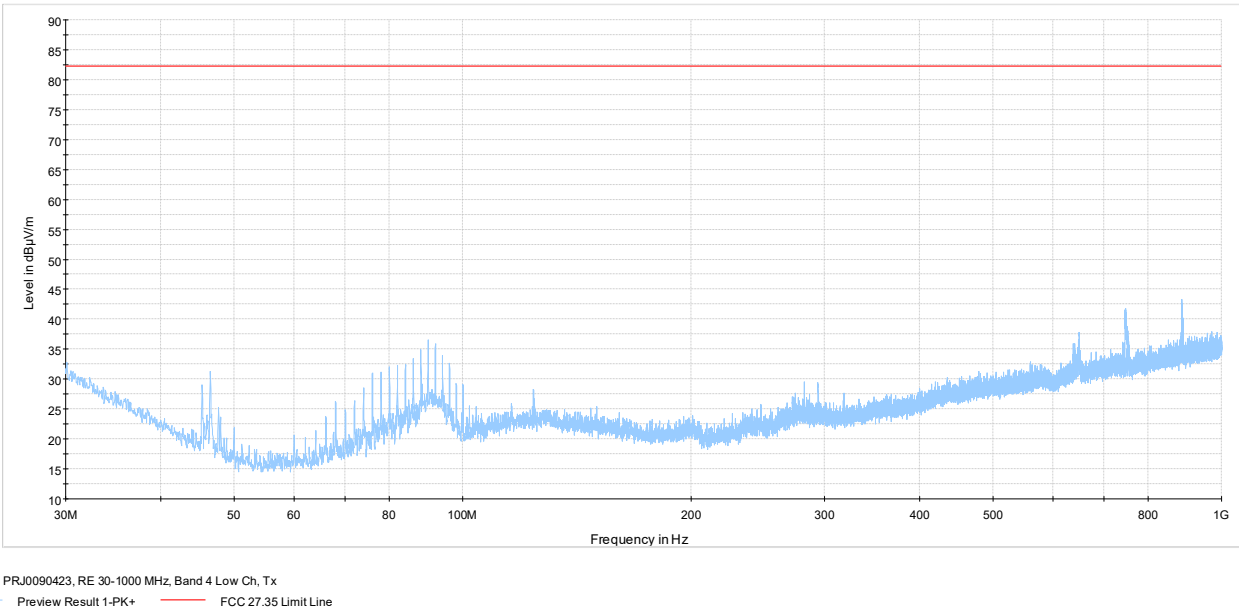


Figure 1.5-1: Radiated spurious emissions 30 – 1000 MHz, Band 4

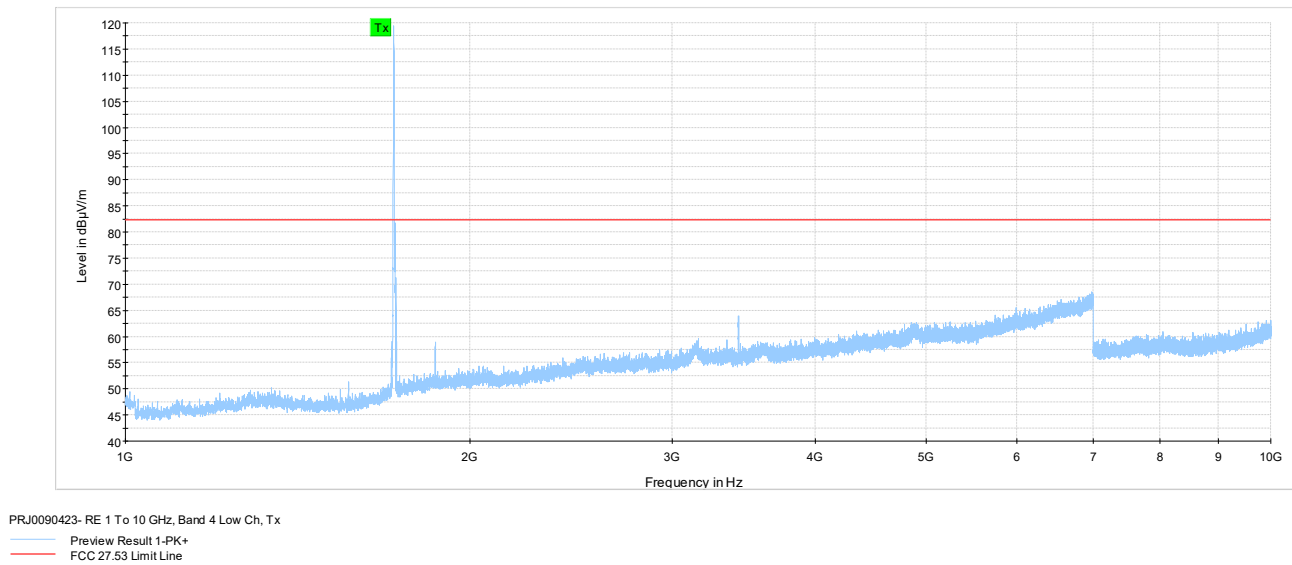


Figure 1.5-2: Radiated spurious emissions 1 – 10 GHz, Band 4

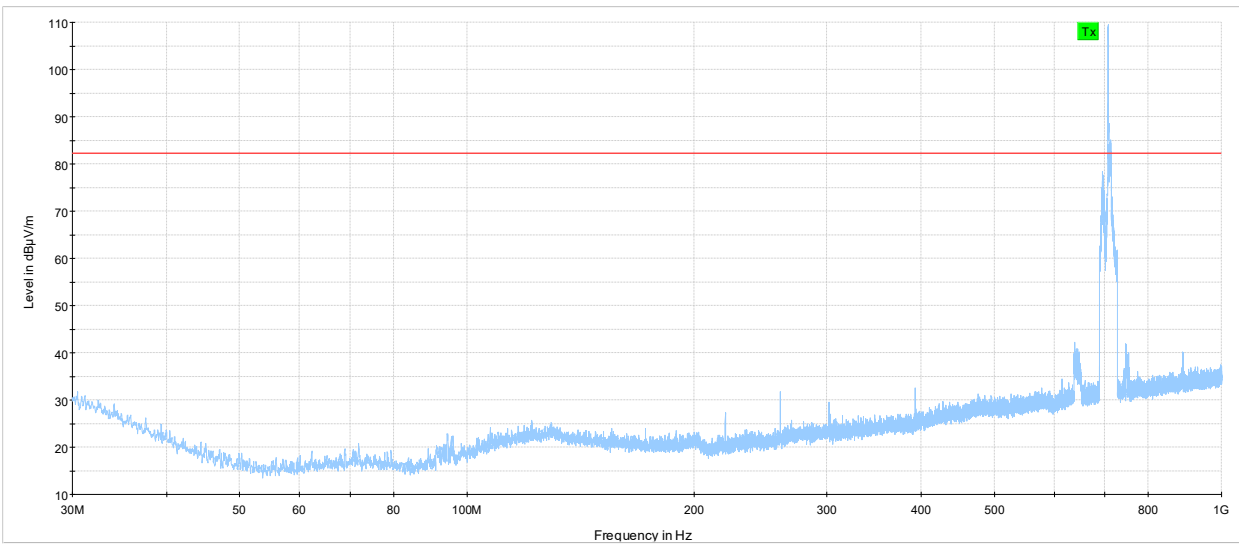


Figure 1.5-3: Radiated spurious emissions 30 – 1000 MHz, Band 12

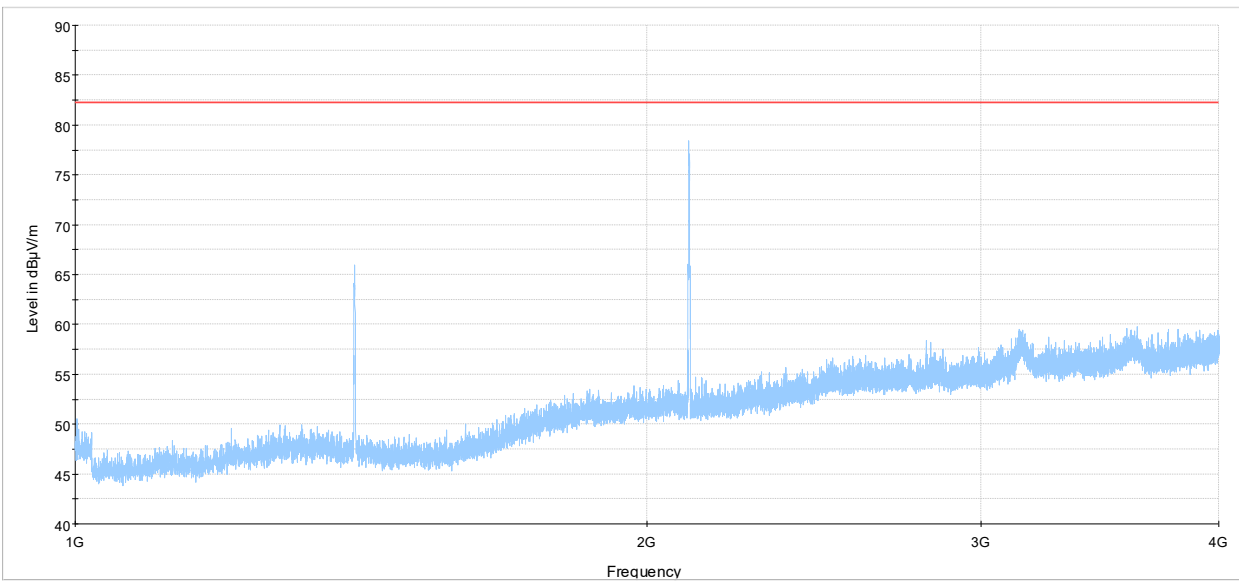


Figure 1.5-4: Radiated spurious emissions 1 – 4 GHz, Band 12