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RF Exposure Report

Project Number: 4494805 Quotation Number: 02212019TH-1.3

Report Number: 4494805EMC05 Revision Level: 0

Client: Lifeline Systems Inc

Equipment Under Test: Medical Alert System

Model Name: Wireless Communicator

Model Number: 7200C

FCC ID: BDZ7200C

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC KDB 447498 D01 General RF Exposure Guidance v06

Report issued on: 12 September 2019

Test Result: Compliant

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Lifeline Systems Inc Address: 111 Lawrence Street

City, State, Zip, Country: Framingham, MA 01702 USA

1.1 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

1.2 General Information of EUT

Equipment Under Test: Medical Alert System

Model Name: Wireless Communicator

Model Number: 7200C

Serial Number: 9040234871

9040234870

FCC ID: BDZ7200C

Tx Frequency Ranges: 1850 – 1910 MHz (LTE Band 2)

1710 – 1755 MHz (LTE Band 4) 699 – 716 MHz (LTE Band 12) 917 – 921 MHz (ISM Band)

Antenna Type: Internal PCB Antennas: 2 (selectable) for ISM, 2 (diversity) for LTE

Antenna Gains: ISM Antenna 1: 2.1 dBi (all maximum ISM Antenna 2: 3.0 dBi

peak gains) LTE Main Antenna: 3.1 dBi (Bands 2&4), 1.6 dBi (Band 12)

LTE Diversity Antenna: 3.1 dBi (Bands 2&4), -0.2 dBi (Band 12)

Sample Received Date: 08 July 2019

Dates of testing: 10 July 2019 (900MHz ISM Band)

1.3 Operating Modes and Conditions

The EUT had an internal battery pack installed and was connected to the AC Mains using the supplied AC/DC wall adapter. The EUT was running test mode software which allowed it to be commanded to turn on a continuous transmit signal at maximum power at different channels in the 900 MHz ISM Band. The EUT only used channels with center frequencies ranging from 917 to 921 MHz in the ISM Band.

Note: Certified radio module grant data (FCC ID: XPY1DIQN3NN) was used for the LTE Bands.

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2 RF Exposure

2.1 Test Result

| Test Description | Product Specific Standard | Test Result | | |
|------------------|---------------------------|-------------|--|--|
| RF Exposure | FCC Part 1.1310 | Compliant | | |

2.2 Test Method

Using the maximum measured conducted power with tune-up tolerance, the power density was calculated. Maximum peak antenna gains were assumed for this exercise.

2.3 Single transmission RF Exposure Levels (mW/cm²)

| Band of Operation | | Conducted Power w/tolerance | Antenna Gain | Cable Loss | Averag | e EIRP | Distance (R) | Power Density EIRP _{Avg} /(4πR²) | FCC | % of Limit | Verdict |
|----------------------|-----------|-----------------------------------|-----------------|---------------|--------|--------|-----------------|--|--------------------|---------------|---------|
| Туре | MHz | dBm | | | dBm | mW | cm | mW/cm² | mW/cm ² | | |
| LTE Band 2 | 1850-1910 | 25.0 | 3.1 | 0.0 | 28.1 | 646 | 20 | 0.128 | 1.00 | 13% | Pass |
| LTE Band 4 | 1710-1755 | 25.0 | 3.1 | 0.0 | 28.1 | 646 | 20 | 0.128 | 1.00 | 13% | Pass |
| LTE Band 12 | 699-716 | 25.0 | 1.6 | 0.0 | 26.6 | 452 | 20 | 0.090 | 0.47 | 19% | Pass |
| 900 MHz ISM Band | 917-921 | -4.2 | 3.0 | 0.0 | -1.2 | 1 | 20 | 0.000 | 0.61 | 0% | Pass |

2.4 Simultaneous transmissions

| | LTE Band 2 | LTE Band 4 | LTE Band 12 | 900 MHz ISM |
|------------------|------------|------------|-------------|-------------|
| | | | | Band |
| LTE Band 2 | | | | 13% |
| LTE Band 4 | | | | 13% |
| LTE Band 12 | | | | 19% |
| 900 MHz ISM Band | 13% | 13% | 19% | |

SGS North America Inc.



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3 Revision History

| Revision Level | Description of changes | Revision Date |
|-------------------|------------------------|-------------------------------------|
| DRAFT | | 19 August 2019 |
| 0 | Initial release | 19 August 2019 12 September 2019 |
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