



Radio Frequency Exposure Evaluation Report

FOR:
Soberlink Healthcare

Brand:
Connect ST

Marketing Name
Connect

Model Name
Connect ST

Product Description
Breathalyzer

FCC ID: 2A8ZY-3900

Applied Rules and Standards:
CFR 47 Part 2.1093
FCC KDB 447498 D01 General RF Exposure Guidance v06

Test Report #: SAR_EX_SOBER_012_22001_FCC_Rev2

DATE: 12/6/2022



A2LA Accredited

CETECOM Inc.

411 Dixon Landing Road ♦ Milpitas, CA 95035 ♦ U.S.A.

Phone: + 1 (408) 586 6200 ♦ Fax: + 1 (408) 586 6299 ♦ E-mail: Contact@cetecom.com ♦ <http://www.cetecom.com>
CETECOM Inc. is a Delaware Corporation with Corporation number: 2905571

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1 Assessment

The following device meets the limits of general population uncontrolled exposure specified in CFR 47 Part 2.1093 according to SAR evaluation exclusion requirements specified in FCC regulation as listed in KDB 447498, as it has been evaluated against the standards mentioned above under this section.

Responsible for Testing Laboratory:

12/6/2022	Compliance	Stoecker, Arndt (Director of Regulatory Services)	Arndt Stoecker	Digitally signed by: Arndt Stoecker DN: CN = Arndt Stoecker email = arndt.stoecker@cetecom.com C = US O = CETECOM Inc Date: 2022.12.06 16:53:39 -08'00'
Date	Section	Name	Signature	

Responsible for the Report:

12/6/2022	Compliance	Ghanma, Issa (EMC Engineer)		Digitally signed by: Issa Ghanma DN: CN = Issa Ghanma email = Issa. Ghanma@cetecom.com C = US O = CETECOM, Inc. OU = EMC Date: 2022.12.06 14:55:54 - 08'00'
Date	Section	Name	Signature	

The test results of this test report relate exclusively to the test item specified in Section 3.

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2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Director of Regulatory Services:	Stoecker, Arndt
Responsible Project Manager:	Sivaraman, Sangeetha

2.2 Identification of the Client

Applicant's Name:	Soberlink Healthcare
Street Address:	7711 Center Ave, Ste 400
City/Zip Code	Huntington Beach, CA 92647
Country	USA

2.3 Identification of the Manufacturer

Applicant's Name:	---Same as Client -----
Street Address:	---Same as Client -----
City/Zip Code	---Same as Client -----
Country	---Same as Client -----

3 Equipment under Assessment

Brand:	Connect ST
Model No:	Connect ST
Marketing name:	Connect
FCC ID:	2A8ZY-3900
Hardware Version:	0001
Software Version:	18.14
Minimum distance of antenna or radiating parts to user	5mm
Radios included in the device:	❖ Bluetooth Low Energy 4.2: Nordic • Chipset name/number: nRF52832 • Modulation: GFSK
Antenna Information as declared:	PCB trace; Gain: 3.63 dBi
Co-located Transmitters/ Antennas:	☐ Yes _____ ☒ No
Exposure Category:	☐ Occupational/ Controlled ☒ General Population/ Uncontrolled
Device Category:	☐ Fixed Installation ☐ Mobile ☒ Portable ☐ Mixed Mobile and Portable
Power Supply/ Rated Operating Voltage Range:	Fixed battery: Low 4.5 V DC, Nominal 5 V DC, High 5.5 V DC
Operating Temperature Range:	Low 0° C, Nominal 23° C, High +50° C
Sample Revision:	☐ Prototype Unit; ☐ Production Unit; ☒ Pre-Production Unit;
EUT Dimensions [mm]:	103 x 70 x 156
EUT Diameter:	☒ < 60 cm ☐ Other _____
Note: The information of the EUT specifications in the table above are provided by the client.	

4 FCC Exemption Limits for Routine Evaluation

4.1 FCC SAR test exclusions are set by KDB 447498 D01 General RF Exposure Guidance v06

KDB 447498 Section: 4.3.1. Standalone SAR test exclusion considerations

- a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as *numeric thresholds* in step b) below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

5 SAR Exclusion Evaluation

5.1 Standalone

FCC Standalone Transmission SAR Exclusion Calculations ≤ 10 mm					
Radio	Frequency [GHz]	Maximum output power* ¹ [mW]	Minimum separation distance [mm]	Threshold	1-g SAR Limit
BT LE	2.402–2.48	5.27	5	1.06	≤ 3.0

*1: Measured

*2: Formula used for threshold calculation described in [section 4.1 a\)](#) of this document for the BT LE radio.

6 Revision History

Date	Report Name	Changes to report	Report prepared by
10/26/2022	SAR_EX_SOBER_012_22001_FCC	Initial Version	Ghanma, Issa
11/4/2022	SAR_EX_SOBER_012_22001_FCC_Rev1	Correction to FCC ID Correction to Product Description	Ghanma, Issa
12/6/2022	SAR_EX_SOBER_012_22001_FCC_Rev2	Calculation correction section 5.1	Ghanma, Issa

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