Prüfbericht-Nr.: *Test report no.:*	**IN23ISA3 001 ULR-TC5688233000000040F**	**Auftrags-Nr.:** *Order no.:*	**146662795 190**	Seite 1 von 3 *Page 1 of 3*
Kunden-Referenz-Nr.: *Client reference no.:*	**2283344**	**Auftragsdatum:** *Order date:*	2022.02.16	
Auftraggeber: *Client:*	LifeSignals, Inc. 426 S Hillview Dr, Milpitas, CA 95035, USA			
Prüfgegenstand: *Test item:*	UbiqVue 2A Wearable Biosensor using UbiqVue 2A Wireless Patient Monitoring System			
Bezeichnung.: *Identification .:*	UB2550/UX2550			
Auftrags-Inhalt: *Order content*:	Maximum Permissible Expsoure			
Prüfgrundlage: *Test specification:*	FCC 1.1310			
Wareneingangsdatum: *Date of sample receipt:*	2022.05.16			
Prüfmuster-Nr & Serien-Nr.: *Test sample no & serial no.:*	A003068621-001 A003068621-002 2021061001			
Prüfzeitraum: *Testing period:*	2022.05.20 - 2022.06.15			
Ort der Prüfung: *Place of testing:*	Wireless laboratory, Bangalore			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (India) Pvt.Ltd., 27/B, 2nd Cross, Electronic City Phase1 Bangalore -560 100, India FCC Test site registration number: 496599 ISED Test site registration number: 3466E-1			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: *tested by:*		**genehmigt von:** *authorized by:*	
Datum: *Date:* 2022.06.16		**Ausstellatum:** *Issue date:* 2023.05.08	
Stellung / *Position:*	**Yogesh V** Engineer	**Stellung** / *Position:*	**Madhu K N** Senior Engineer
Sonstiges / *Other:*	FCC ID: 2AHV9-UB2550		

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:* — **Prüfmuster vollständig und unbeschädigt** ***Test item complete and undamaged***

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not*

RF Exposure Report

Following FCC KDB 447498 D01 General SAR test exclusion guidelines

The corresponding SAR exclusion threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation Distances ≤ 50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] · [√f (GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g.

Extremity SAR, where

- f(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 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 5) in section 4.1 is applied to determine SAR test exclusion(447498 D01 General RF Exposure Guidance v06)

2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold Is determined according to the following

- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance - 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion,

- The power threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for *test separation distances* > 50 mm and < 200 mm
- The power threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for *test separation distances* ≤ 50 mm
- SAR measurement procedures are not established below 100 MHz When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

SAR Test Exclusion Thresholds

Protocol: Wi-Fi 2.4GHz

Exclusion calculation considering measured maximum power excluding antenna gain

Frequency (GHz)	Max.Power (dBm)	Tune-up value	Max.Power Including Tune-up Tolarence (dBm)	Max.Power Including Tune-up Tolarence (mW)	Minimum test separation distance (mm)	SAR Test Exclusion Calculation Values	1-g Extremity SAR Test exclusion Threshold
2.412	1.32	1	2.32	1.7060	5	0.529930172	3

Protocol: Bluetooth low energy (BLE)

Exclusion calculation considering measured maximum power excluding antenna gain

Frequency (GHz)	Max.Power (dBm)	Tune-up value	Max.Power Including Tune-up Tolarence (dBm)	Max.Power Including Tune-up Tolarence (mW)	Minimum test separation distance (mm)	SAR Test Exclusion Calculation Values	1-g Extremity SAR Test exclusion Threshold
2.402	7.08	1	8.08	6.4268	5	1.992124594	3

From above table calculation the EUT is exempted from routine SAR evaluation

Note:

1. SAR exclusion threshold is calculated using condition1 formulas.
2. Transmitting power level is taken from the RF test report IN23ISA3 001 / ULR-TC5688233000000040F

******END OF TEST REPORT*******