

## Test Report

Prepared for: Level Up Holding Co., Inc

Models: LBA-VI-7  
LBA-VI-7-CELL-V

Description: Video Intercom System with 7 inch Screen

FCC ID: 2A267-LBAVI7-CV

To

FCC Part 1.1310

Date of Issue: October 27, 2021

On the behalf of the applicant:

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Attention of:

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Project No: p2180004.7



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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	10/27/2021	Greg Corbin	Original Document

## ANAB

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The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

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**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

**Non-accredited tests contained in this report:**

**N/A**

**Model Tested: LBA-VI-7-CELL-V**  
**Description: Video Intercom System with 7 inch Screen**  
**Software: Littlebird Test Software Rev 1.0**  
**Serial Number: N/A**

**Additional Information:**

The EUT is a modern version of the traditional telephone entry system for a gated community or complex. This device allows residents to access the property by swiping a physical credential such as a key fob, or their smartphone, as well as providing directory lookup and calling for property guests.

The EUT contains a 125 kHz transmitter and 2 pre-certified modules, (BLE and Cellular).

The 125 kHz transmitter was a pre-certified module with Limited Modular Approval. Full compliance testing was performed and a new FCC ID was issued for the 125 kHz transmitter.

The maximum output powers were obtained from the FCC RF test report (p2180004\_FCC 15.209\_rev 1.0).

Transmitter	Frequency Range	ERP / EIRP Radiated Power	
		(dBm)	(mw)
RFID	125 kHz	ERP = -93.28 dBm (4.1 dBuV/m)	4.69 e-13
BLE	2402 – 2480 MHz	EIRP = 3.4 dBm @ 2480 MHz	2.188
Cellular Band 4	1710 – 1755 MHz	EIRP = 14.4 dBm @1720 MHz	27.5
Cellular Band 13	777- -787 MHz	EIRP = 26.9 dBm @ 784.5 MHz	489.77

The EUT does not have a conducted port. All three transmitter output powers were measured radiated in a 3 meter anechoic chamber.

The manufacturer produces a variant of the model tested. The variant is the same as the model tested with the cellular module removed. The model with the cellular module was tested to represent the worse cast of the 2 models.

**Model Tested and Variants**

Model Tested	Description
<b>LBA-VI-7-CELL-V</b>	7 inch non-touch screen with Verizon Cellular Modem
<b>Variants</b>	
<b>LBA-VI-7</b>	7 inch non-touch screen without Verizon Cellular Modem

Since the frequency ranges of the 3 transmitters are independent of each other, individual RF Exposure calculations were performed for each transmitter per the most recent RF Exposure rules FCC CFR 47 part 1.1307, 1.1310 and KDB 447498 D01 DR04-44449.

Section 6.3.1 of KDB 447498 D01 DR04-44449, states:

*To determine if a mobile device with multiple transmitters qualifies for simultaneous transmission test exemption, the basic approach is to evaluate MPE compliance for each transmitter, either by measurement or computational modeling (the latter being subject to PAG). In this way one can assess if each transmitter qualifies for the standalone test exemptions of Section 2.1.*

**125 kHz Transmitter RF Exposure assessment.**

ERP Output Power = 4.1 dBuV /m (-91.1 dBm, 0.00000000046989 mw).

RF Exposure for the 125 kHz transmitter was evaluated per FCC CFR 47 Part 1.1307(b)(3)(i)(A) to see if the 125 kHz transmitter is below the 1 mw exemption limit.

**The EUT output power at 46.9 pw (-93.28 dBm ) is below the 1 mw exemption allowed.**

**No further evaluation of the 125 kHz transmitter is required.**

## BLE Transmitter

The BLE transmitter was evaluated per FCC CFR 47 Part 1.1307(b)(3)(i)(C).

The ERP Threshold  $ERP_{TH}$  was calculated and compared to the  $ERP_{DUT}$  output power.

### EUT test information

Frequency	$ERP_{DUT}$		Distance
Hz	mW	dBm	cm
2480000000	2.18776162	3.4	20

1.1307(b)(3)(i)(C) Table 1 ERP Threshold							
Frequency MHz	$ERP_{th}$ W	$ERP_{th}$ dBm	$R_{min} \geq \lambda/2\pi$ m	R m	$\lambda$ m	$\lambda/4$ m	Limit Ratio $ERP_{dut} / ERP_{th}$
0.3 - 1.34	76.800	48.854	0.019	0.200	0.121	0.030	0.000
1.34 - 30	0.000	-16.490					97.504
30 - 300	0.153	21.853					0.014
300 - 1,500	1.270	31.037					0.002
1,500 - 100,000	0.768	28.854					0.003

The  $ERP_{DUT}$  at 2.2 mw is below the  $ERP_{TH}$  of 768 mw at 2480 MHz at a distance of 20 cm.

The BLE transmitter output power is below the ERP threshold and meets the ERP threshold exemption of FCC CFR 47 Part 1.1307(b)(3)(i)(C).

**No further RF Exposure evaluation is required for the BLE transmitter.**

## Cellular Transmitter

The Cellular transmitter was evaluated per FCC CFR 47 Part 1.1307(b)(3)(i)(B).  
Each band of the cellular transmitter was evaluated separately.

The Power Threshold  $P_{TH}$  was calculated and compared to the  $ERP_{DUT}$  output power.

### EUT test information

Band	Frequency	$ERP_{DUT}$		Distance
	Hz	mW	dBm	cm
4	1754300000	27.5	14.4	20
13	784500000	489.8	26.9	20

### Band 4 Evaluation

1.1307(b)(3)(i)(B) P Threshold									
				Portable 2.1093			Mobile 2.1091		
Frequency	$ERP_{20cm}$	x	d	$P_{th} (0.5 \leq d \leq 20 \text{ cm})$		Limit Ratio	$P_{th} (20 < d \leq 40 \text{ cm})$		Ratio to Limit
GHz	mW		cm	mW	dBm	$ERP_{dut} / P_{th}$	mW	dBm	$ERP_{dut} / P_{th}$
0.3 - 1.5	3578.772	1.898	20	960.482	29.825	0.031	3578.772	35.537	0.008
1.5 - 6	3060.000	1.830	20	3060.000	34.857	0.009	3060.000	34.857	0.009

The  $ERP_{DUT}$  at 27.5 mw for Band 4 is below the  $P_{TH}$  of 3060 mw at 1754.3 MHz at a 20 cm distance.

The Band 4 cellular transmitter output power is below the Power threshold and meets the Power threshold exemption of FCC CFR 47 Part 1.1307(b)(3)(i)(B).

### Band 13 Evaluation

1.1307(b)(3)(i)(B) P Threshold									
				Portable 2.1093			Mobile 2.1091		
Frequency	$ERP_{20cm}$	x	d	$P_{th} (0.5 \leq d \leq 20 \text{ cm})$		Limit Ratio	$P_{th} (20 < d \leq 40 \text{ cm})$		Ratio to Limit
GHz	mW		cm	mW	dBm	$ERP_{dut} / P_{th}$	mW	dBm	$ERP_{dut} / P_{th}$
0.3 - 1.5	1600.38	1.373	20	1600.380	32.042	0.306	1600.38	32.042	0.306
1.5 - 6	3060.00	1.655	20	971.755	29.876	0.504	3060.00	34.857	0.160

The  $ERP_{DUT}$  at 489.8 mw for Band 13 is below the  $P_{TH}$  of 1600.4 mw at 784.5 MHz at a 20 cm distance.

The Band 13 cellular transmitter output power is below the Power threshold and meets the Power threshold exemption of FCC CFR 47 Part 1.1307(b)(3)(i)(B).

**No further RF Exposure evaluation is required for the cellular transmitter**

END OF TEST REPORT