

### SAR EXCLUSION REPORT

Manufacturer: Transducers Direct, LLC

**12115 Ellington Court** 

Cincinnati, Ohio 45249 USA

Applicant: Same As Above

Product Name: TDWLB Series Wireless Bluetooth Pressure Transducer,

Ver.2

**Product Description:** Bluetooth Enabled Wireless Pressure Transducer Version 2

Model: TDWLBG2

Part Number: TDWLB0100031\*

\*Denotes actual part number tested as representative of product

family identified in Section 5.0 of this Test Report.

FCC ID: 2ACGE-TDWLBG2

Standards:

KDB447498 Appendix A

**Report Constructed by:** 

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**Applicant: Transducers Direct, LLC** 

Model: TDWLBG2

### 1 ADMINISTRATIVE INFORMATION

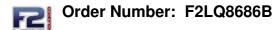
### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

# 1.2 Document History

Document Number Description		Issue Date	Approved By	
F2LQ8686B-03E	First Issue	Feb. 17, 2017	K. Littell	

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Applicant: Transducers Direct, LLC Model: TDWLBG2

#### 2 **SUMMARY OF RESULTS**

	Standard(s)	Results
SAR Exclusion	KDB447498, Appendix A	Complies

Modifications Made to the Equipment	
None	

**Applicant: Transducers Direct, LLC** 

Model: TDWLBG2

#### 3 ENGINEERING STATEMENT

This report has been prepared on behalf of Transducers Direct, LLC to provide documentation for the SAR Exclusion herein. This equipment has been tested and found to comply with the SAR Exclusion levels listed in Appendix A of KDB447498. The highest peak output power measured from the EUT was 3.78mW and the highest EIRP was 6.14mW which is well below the exclusion limit of 10mW at 5mm.

Appendix A

SAR Test Exclusion Thresholds for 100 MHz − 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	The conord (iii iii)
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	SAR Test Exclusion Threshold (mW)
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
	37	44	50	56	62	

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

**Applicant: Transducers Direct, LLC** 

Model: TDWLBG2

### 4 EUT INFORMATION AND DATA

# 4.1 Equipment Under Test:

Product: TDWLB Series Wireless Bluetooth Pressure Transducer, Ver.2

Model: TDWLBG2

Part No.: TDWLB0100031\* Serial No.: None Specified FCC ID: 2ACGE-TDWLBG2

\*Denotes actual part number tested as representative of product family identified in Section 5.0 of this Test Report.

#### 4.2 Trade Name:

Transducers Direct, LLC

# 4.3 Power Supply:

Battery-operated

## 4.4 Applicable Rules:

KDB447498

# 4.5 Equipment Category:

Radio Transmitter-DTS

#### 4.6 Antenna:

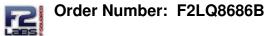
2.1dBi Integral Antenna

### 4.7 Accessories:

N/A

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5.0 PRODUCT FAMILY IDENTIFICATION

