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MPE TEST REPORT

Manufacturer: LSI Industries, Inc.
10000 Alliance Road
Cincinnati, Ohio 45242 USA

Applicant: Same as Above

Product Name: Stand-alone Bluetooth 5 Low Energy Module

Model: BMD-341

FCC ID: 2AWNNBMD341

Testing Commenced: 2022-03-15

Testing Ended: 2023-01-27

Test Results: **In Compliance, with Modifications**

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

Standards:

- KDB447498



Order Number: F2P26688A

Applicant: LSI Industries, Inc.
Model: BMD-341

Evaluation Conducted by:

Julius Chiller, Senior Wireless Project Engineer

Report Reviewed by:

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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 Measurement Procedure:

All measurements were performed according to KDB558074.

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2P26688A-02E	First Issue	2023-03-06	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies

Modifications Made to the Equipment
Power setting reduced to "0" due to 2 nd Harmonic Level.



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3 ENGINEERING STATEMENT

This report has been prepared on behalf of LSI Industries, Inc., to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



4 EUT INFORMATION AND DATA

4.1 Equipment Under Test:

Product: **Stand-alone Bluetooth 5 Low Energy**
Model: BMD-341
Serial No.: 408730
FCC ID: **2AWNNBMD3411**

4.2 Trade Name:

LSI Industries, Inc.

4.3 Power Supply:

USB

4.4 Applicable Rules:

KDB447498

4.5 Equipment Category:

Radio Module-DTS

4.6 Antenna:

Monopole, -2.5 dBi Gain

4.7 Accessories:

Device	Manufacturer	Model Number	Serial Number
Antenna	IPEX	Custom	None



5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements: Distance used is 20cm

Limit: 1mW/cm²

Formula used for result: $\frac{E.I.R.P.}{4 \pi R^2}$

Results: E.I.R.P. = 1.91 mW

1.91 mW at the 2440 MHz Mid Channel,
which is the highest.

$$\frac{1.91 \text{ mW}}{4 \pi R^2} = \frac{1.91 \text{ mW}}{5026.55} = 0.00038 \text{ mW/cm}^2$$