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MPE REPORT

Manufacturer: **Knox Company**
1601 West Deer Valley Road
Phoenix, Arizona 85027 USA

Applicant: **Same as Above**

Product Name: **Radio Module**

Product Description: **Radio Module**

Model(s): **CC3135MODRNMMOBR**

FCC ID: **2AOVI-KNOXRT35**

IC: **23479-KNOXRT35**

Testing Commenced: **2026-01-19**

Testing Ended: **2026-01-19**

Test Results: **In Compliance**

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**
- **FCC 1.1310**
- **Safety Code 6**
- **RSS-102**



Order No(s): F2X34964A

Applicant: Knox Company
Model(s): CC3135MODRNMMOBR

Evaluation Conducted by:

Erik Tobin, EMC 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.

Site description and attenuation data are on file with the Certification and Engineering Bureau, Industry Canada, Site Number 4730B.

1.2 Measurement Procedure:

All measurements were performed according to:

- KDB558074
- FCC 15.247, FCC 15.407
- RSS-247

1.4 Document History

Document Number	Description	Issue Date	Approved By
F2X34964A-03E	First Issue	2026-03-16	K. Littell



2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498 FCC 1.1310 Safety Code 6 RSS-102	Complies

Modifications Made to the Equipment
None



3 **ENGINEERING STATEMENT**

This report has been prepared on behalf of Knox Company to provide documentation for the calculations described herein, based on the measurements taken in supporting Test Reports. This equipment has been tested and calculations were found to comply with KDB447498, FCC 1.1310, Safety Code 6 and RSS-102. 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:

Radio Module Model: **CC3135MODRNMMOBR**

Serial No.: 001

FCC ID: 2AOVI-KNOXRT35

IC: 23479-KNOXRT35

4.2 Trade Name:

Knox Company

4.3 Power Supply:

CUI SDI90-12-U, used to power the Host device which was used to power the module that was placed outside of the Host.

4.4 Applicable Rules:

- KDB447498
- FCC 1.1310
- Safety Code 6
- RSS-102



4.5 Antennas:

Antenna Type	Manufacturer	Model Number	Gain
Dipole	AIR802	ANRD245X05-RSP	2.4 GHz: 5dBi 5 GHz: 5dBi
Dipole	Taoglas Limited	GW.71.5153	2.4 GHz: 3.8dBi 5 GHz: 5.5dBi
Balance Flex	Molex	1461530100	2.4 GHz: 3.0dBi 5 GHz: 4.5dBi
Collinear	Pulse/Larson Electronics	NMO5E2400B	2.4 GHz: 2.95dBi 5 GHz: N/A

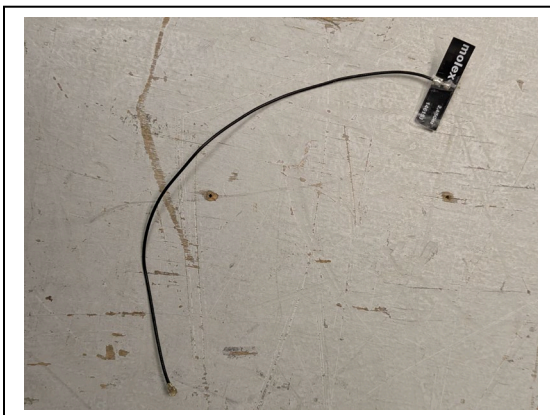
ANRD245X05-RSP



GW.71.5153



1461530100



NMO5E2400B





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4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Power Supply	CUI	SDI90-12-U	None Specified
KeySecure (host)	Knox Company	KS-6K2	None Specified

**5 RF EXPOSURE FOR DEVICE >20cm FROM HUMAN****5.1 Requirements: Distance used is 20cm**

FCC (2.4 GHz)	
Limit:	1mW/cm ²
Formula used for result:	$\frac{E.I.R.P.}{4 \pi R^2}$
Results:	E.I.R.P. = 297.85mW (24.74dBm) 94.2mW (19.74dBm) was the highest conducted power of the certified module in the 2400 MHz band. 5.0dBi antenna gain used. $\frac{297.85mW}{4 \pi R^2} = \frac{297.85mW}{5026.55} = 0.059mW/cm^2$

FCC (5 GHz)	
Limit:	1mW/cm ²
Formula used for result:	$\frac{E.I.R.P.}{4 \pi R^2}$
Results:	E.I.R.P. = 112.20mW (20.50dBm) 31.62mW (15.0dBm) was the highest conducted power of the certified module in the 5500 MHz band. 5.50dBi antenna gain was used. $\frac{112.20mW}{4 \pi R^2} = \frac{112.20mW}{5026.55} = 0.022mW/cm^2$



IC (2.4 GHz)	
Limit:	5.41W/m ²
Formula used for result:	$\frac{E.I.R.P.}{4 \pi R^2}$
Results:	E.I.R.P. = 297.85mW (24.74dBm) 94.2mW (19.74dBm) was the highest conducted power of the certified module in the 2400 MHz band. 5.0dBi antenna gain was used. $\frac{297.85mW}{4 \pi R^2} = \frac{297.85mW}{5026.55} = 0.59 W/m^2$

IC (5 GHz)	
Limit:	9.43W/m ²
Formula used for result:	$\frac{E.I.R.P.}{4 \pi R^2}$
Results:	E.I.R.P. = 112.20mW (20.50dBm) 31.62mW (15.0dBm) was the highest conducted power of the certified module in the 5500 MHz band. 5.50dBi antenna gain was used. $\frac{112.20mW}{4 \pi R^2} = \frac{112.20mW}{5026.55} = 0.22W/m^2$