

Certification Exhibit

RF Exposure:

FCC 47 CFR Part 2.1093

Cinch Systems, Inc
RF-ARGB-319-V3

FCC ID: 2ABBZ-RF-ARGB-319V3
IC: 11817A-RFARGB319V3

Prepared for: Cinch Systems, Inc
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Document Number: NC721018292.3 | Issue: 2



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FCC Accreditation Designation Number US1148 New Brighton, MN Test Laboratory	Innovation, Science, and Economic Development Canada Accreditation Site Number 4512A New Brighton, MN Test Laboratory
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1 Report Summary

1.1 Document Modification Record

Alterations and Additions of this document will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2026-March-26
2	Updated the FCC ID.	2026-April-07

1.2 Purpose

The purpose of the document is to report the RF exposure evaluation of the RF-ARGB-319-V3 in accordance with FCC 47 CFR Part 2.1093.

1.3 General Information

Applicant: Cinch Systems, Inc
Device Category: Portable
Environment: General Population/Uncontrolled Exposure
Test Specification/Issue/Date: US Code of Federal Regulations (CFR): Title 47, Part 1, Subpart I: Procedures Implementing the National Environmental Policy Act of 1969, 2025.
US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2025.

1.4 Device under Test (DUT) Description

The EUT is a glass break detector interfacing wirelessly to a security panel to provide life safety and property protection. The transmitter operates at a frequency of 319.5 MHz

1.5 Technical Information

FCC ID: 2ABBZ-RF-ARGB-319V3
ISED Certification Number: 11817A-RFARGB319V3
Transmission Protocol: 319 MHz Momentarily Operated Transmitter
Frequency: 319.5 MHz
Antenna Type: Monopole
Antenna Gain: -11.5 dBi
Maximum Field Strength: 90.44 dBuV/m
Measurement Distance: 3 m
Exposure Conditions: ≤ 5 mm



2 Evaluation Details

2.1 Specific Requirements

FCC 47 CFR Part 1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

1.1307 (b)(3) Determination of exemption.

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} = \begin{cases} ERP_{20\text{ cm}} \left(\frac{d}{20\text{ cm}} \right)^x & d \leq 20\text{ cm} \\ ERP_{20\text{ cm}} & 20\text{ cm} < d \leq 40\text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20\text{ cm}} \sqrt{f}} \right) \quad \text{and } f \text{ is in GHz};$$

And

$$ERP_{20\text{ cm}} (\text{mw}) = \begin{cases} 2040f & 0.3\text{ GHz} \leq f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \leq f < 6\text{ GHz} \end{cases}$$

$d = \text{the separation distance (cm)}$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s)



do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C)—Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R ² .

2.2 RF Exposure Assessment

Minimum Test Separation Distance:	0.5 cm
Highest Operating Frequency:	319.5 MHz
Antenna Type:	Monopole Antenna
Antenna Gain:	-11.5 dBi
Maximum Transmitter Field Strength:	90.44 dBuV/m
Field Strength Test Distance:	3.0 m
Maximum RF Conducted Power:	6.71121 dBm
Maximum RF Conducted Power:	4.68944 mW
Maximum Transmitter EIRP:	-4.78879 dBm
Maximum Transmitter EIRP:	0.331987 mW
Exposure Condition	Body

Determination of Exemption:

Maximum Transmitter ERP:	0.2023584 mW
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47 CFR 1.1307(b)(3)(i)(B)

ERP20cm:	651.78 mW
x:	0.788185211
Exclusion Threshold (P _{th}):	35.5943477 mW
Exemption:	YES
Contribution Ratio (P / P _{th})	0.131746843
Distance to Limit	0.0382 cm

Note: The maximum EIRP and RF conducted power were calculated from the measured Field Strength in dBuV/m at a distance of 3 m.



3 Conclusion

Exemption from Routine Environmental Evaluation applies. The EUT meets the RF exposure requirements of the standards listed above.