



Report No.: 1910-071EA-264

Revision: N/C

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## Radar Sensor Calibration Verification Certificate of Calibration

**Model: RRS24F-ST3**

**Part Number / Serial Number:**

**590-113/63549**

**Ex. 590-XXX / 6XXXX**

**Description:**

**Radar Characteristics Validation**

**In compliance with:**

**RRS24F-ST3 Radar Sensor Calibration Verification Procedure Documentation (5030-0150)**

**Date of Issue: October 27, 2023**

**Owner of EUT:**

**Verra Mobility  
1150 N. Alma School Rd  
Mesa, AZ 85201**

**Attention of:**

**Engineering Department  
Phone: (480) 443-7000**

<b>Test Facility</b>	
Test Laboratory	Keystone Compliance, LLC
Address	131 North Columbus Innerbelt
City, State, Zip Code	New Castle, PA 16101
Phone	(724) 657-9940
Email	emcteam@keystonecompliance.com
Web Site	www.keystonecompliance.com

<b>Test Personnel</b>	
Name	Camren Morgan
Title	EMC Test Engineer
Signature	



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The frequency measurements performed and recorded within this report demonstrate that the JENOPTIK RR24F-ST3 radar has an accuracy of less than or equal to 0.62 mph in the range of 6.21 mph to 62.14 mph and an accuracy of 0.62 mph to 1.86 mph in the range of 62.14 mph to 186.41 mph. This is equal to or better than +/- 1 mph accuracy up to 100 mph, as specified by the manufacturer.

FSK Frequency Set 1					
Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$f_0 = 24.08$	24.078275	13.8578277	-1.72	+/- 48.2	PASS
$f_1 = 24.08725$	24.085424	14.0964424	-1.83	+/- 48.2	PASS
$f_2 = 24.089$	24.087376	15.6300784	-1.62	+/- 48.2	PASS
$f_3 = 24.09$	24.088351	15.785438	-1.65	+/- 48.2	PASS

FSK Frequency Set 2					
Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$f_0 = 24.12$	24.118575	14.5002431	-1.43	+/- 48.2	PASS
$f_1 = 24.12725$	24.12605	14.3868555	-1.20	+/- 48.2	PASS
$f_2 = 24.129$	24.127676	15.2604875	-1.32	+/- 48.2	PASS
$f_3 = 24.13$	24.128651	15.5778484	-1.35	+/- 48.2	PASS

FSK Frequency Set 3					
Nominal Frequency (GHz)	Measured Frequency (GHz)	Amplitude (dBm)	Frequency Deviation (MHz)	Limit (MHz)	Results
$f_0 = 24.16$	24.157252	13.7936426	-2.75	+/- 48.2	PASS
$f_1 = 24.16725$	24.164725	14.5182487	-2.52	+/- 48.2	PASS
$f_2 = 24.169$	24.166351	15.7558766	-2.65	+/- 48.2	PASS
$f_3 = 24.17$	24.167326	15.841235	-2.67	+/- 48.2	PASS