

iKeyless, LLC / HNHKL-G050

Page: 1 of 30

# **RF Test Report**

Project Number: 5002314 Offer Number: SUW-202210003592

Report Number: 5002314EMC01 Revision Level: 1

Client: iKeyless, LLC

**Equipment Under Test: Keyless Entry Remote Control** 

Model / HVIN: HNHKL-G050

FCC ID: X32-HNHKG050

IC: 8797A-HNHKG050

Applicable Standards: FCC Part 15 Subpart C, § 15.231 Periodic Operation in

the band 40.66-40.77MHz and above 70MHz

ANSI C63.10: 2013

RSS-210, Issue 10 (Annex A)

**RSS-GEN Issue 5** 

Report issued on: 02 February 2023

Report Revision on: 02 March 2023

Test Result: Compliant





FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
Report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by:	Tanex avoury	
	Daniel Alvarez, Project Engineer	
D : 11	Martin Josh	
Reviewed by:		
	Martin Taylor, Project Engineer	

T. 000 ...

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a>. And for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx">http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx</a>.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for a maximum of 30 days only.



Test Report Number: 5002314EMC01 Rev: 1 iKeyless, LLC / HNHKL-G050

Page: 2 of 30

### **Table of Contents**

1	SUN	MMARY OF TEST RESULTS	3
	1.1	MODIFICATIONS REQUIRED FOR COMPLIANCE	3
2	GEN	NERAL INFORMATION	4
	2.1	CLIENT INFORMATION	4
	2.2	TEST LABORATORY	
	2.3	GENERAL INFORMATION OF EUT	
	2.4	OPERATING MODES AND CONDITIONS	
	2.5	EUT CONNECTION BLOCK DIAGRAM – RADIATED MEASUREMENTS	5
	2.6	SYSTEM CONFIGURATIONS	5
3	ANT	TENNA REQUIREMENT	6
	3.1	RESULT	6
	3.2	REQUIREMENT	6
	3.3	Conclusion	6
4	FIE	LD STRENGTH OF FUNDAMENTAL	7
	4.1	TEST RESULT	7
	4.2	TEST METHOD.	
	4.3	TEST SETUP DIAGRAM.	
	4.4	TEST SITE	8
	4.5	TEST EQUIPMENT	8
	4.6	DUTY CYCLE CORRECTION FACTOR (DCCF)	
	4.7	TEST DATA – PLOTS	
	4.8	TEST DATA – TABULAR	14
5	FIE	LD STRENGTH OF SPURIOUS RADIATION	15
	5.1	TEST RESULT	15
	5.2	TEST METHOD	15
	5.3	TEST SITE	
	5.4	TEST EQUIPMENT	
	5.5	TEST DATA – BELOW 1 GHZ	
	5.6	TEST DATA – ABOVE 1 GHz	20
6	BAN	NDWIDTH	26
	6.1	TEST RESULT	
	6.2	TEST METHOD	
	6.3	TEST SITE	
	6.4	TEST EQUIPMENT	
	6.5	TEST DATA	27
7	DEA	ACTIVATION TIME	28
	7.1	TEST RESULT	
	7.2	TEST METHOD	
	7.3	TEST SITE	
	7.4	TEST EQUIPMENT	
	7.5	TEST DATA	29
8	REV	VISION HISTORY	30

iKeyless, LLC / HNHKL-G050

Page: 3 of 30

### 1 Summary of Test Results

Test Description	Test Specification	Test Result
Antenna requirement	47 CFR Part 15, Subpart C 15.203	Compliant
Field strength of fundamental	15.231(b); RSS-210 A.1.2(a) ANSI C63.10:2013, Section 6.5	Compliant
Field strength of spurious radiation	15.231(b); RSS-210 A.1.2(b) ANSI C63.10:2013, Section 6.5	Compliant
Bandwidth	15.231(c); RSS-210 A.1.3 ANSI C63.10:2013, Section 6.9	Compliant
Deactivation time (manual)	15.231(a)(1); RSS-210 A.1.1(a) ANSI C63.10:2013, Section 7.4	Compliant
Polling transmissions	15.231(a)(3); RSS-210 A.1.1(c)	N/A <sup>1</sup>
Transmission time for setup	15.231(a)(5) ANSI C63.10:2013, Section 7.4	N/A <sup>2</sup>
Frequency stability	15.231(d) ANSI C63.10:2013, Section 6.8	N/A <sup>3</sup>

Note 1: Not applicable since this device does not use polling or supervision transmissions.

Note 2: Not applicable since the transmission duration limits in paragraph (a)(1) are met.

Note 3: Not applicable since this device does not operate within the frequency band 40.66-40.70MHz.

### 1.1 Modifications Required for Compliance

None

SGS North America Inc.

Connectivity & Products



iKeyless, LLC / HNHKL-G050

Page: 4 of 30

#### 2 General Information

#### 2.1 Client Information

Name: iKeyless LLC

Address: 12101 Sycamore Station Place, Suite 101

City, State, Zip, Country: Louisville, KY 40299

#### 2.2 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01
ISED CAB Identifier: US0186
FCC Designation Number: US1126

#### 2.3 General Information of EUT

Type of Product: Keyless Entry Remote Control

Product Marketing Name (PMN): HNHKL-G050

Model Number (HVIN): HNHKL-G050 Firmware Version ID (FVIN): HNHKL-F010

Sample ID: SUWEM2301000004 FCC ID: X32-HNHKG050 IC: 8797A-HNHKG050

Frequency Range: 433.92 MHz

Modulation: FSK

Antenna: PCB trace loop

Rated Voltage: 3Vdc CR1620 coin cell battery
Test Voltage: 3Vdc CR1620 coin cell battery

Sample Received Date: 01 January 2023

Dates of testing: 24 January to 01 February 2023; March 1, 2023

### 2.4 Operating Modes and Conditions

The EUT was powered by one standard CR1620 coin cell battery during testing. Two types of samples were provided to SGS: normal and test mode. The test mode sample was configured by the client such that a button press would start a continuous transmit signal using the same modulation and power as a normal transmit signal but with a higher duty cycle than normal to make most testing easier. Pressing a different button would stop the continuous transmit signal. The normal sample was configured to operate as it would in the field with temporary transmissions triggered by pressing the various buttons. This sample was used to test the deactivation time as well as the normal operational duty cycle.

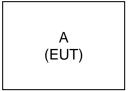
SGS North America Inc.



iKeyless, LLC / HNHKL-G050

Page: 5 of 30

### 2.5 EUT Connection Block Diagram – Radiated Measurements



	Inside Chamber	
•••	Outside Chamber	

### 2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number	
А	iKeyless LLC	Keyless Entry Remote Control	HNHKL-G050	(not labeled) Sample ID: SUWEM2301000004	

SGS North America Inc.

Connectivity & Products



iKeyless, LLC / HNHKL-G050

Page: 6 of 30

### 3 Antenna Requirement

#### 3.1 Result

Test Description	Test Specification	Test Result
Antenna requirement	FCC 15.203	Compliant

#### 3.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 3.3 Conclusion

The antenna in the device is a loop PCB trace antenna. It is permanently attached and thus meets the antenna requirement.

SGS North America Inc.

Connectivity & Products



iKeyless, LLC / HNHKL-G050

Page: 7 of 30

### 4 Field Strength of Fundamental

#### 4.1 Test Result

Test Description	Test Specification		Test Specification		Test Result
Field strongth of fundamental	15.231(b)	RSS-210 A.1.2	Compliant		
Field strength of fundamental	ANSI C63.10:2013, Section 6.5		Compliant		

Note: Output power was reduced by an average of ~7 dB.

#### 4.2 Test Method

The test data was measured using a Peak detector. Average measurements were made by correcting the peak value with the duty cycle correction factor. The receiver's resolution bandwidth was set to 120 kHz for measurements taken in the 30MHz to 1GHz frequency range and 1MHz for measurements for 1GHz and higher. Measurements were made with the antenna positioned at a 3m distance from the EUT in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency. The radiated measurements were recorded and compared to the limits indicated in the table below.

The EUT was oriented in each of its three orthogonal axes and data for each was reported.

Limits for average value of emissions measured at 3m distance

	FCC	RSS-210		
Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of fundamental (microvolts/meter)		
40.66-40.70	2,250	Not allowed		
70-130	1,250			
130-174	1,250 to 3,750 <sup>1</sup>			
174-260	3,750			
260-470	3,750 to 12,500 <sup>1</sup>			
Above 470	12,500			

<sup>1)</sup> Linear interpolations

From the table above, the fundamental limit for a 433.93 MHz fundamental frequency is determined by linear interpolation to be 80.83 dBuV/m.

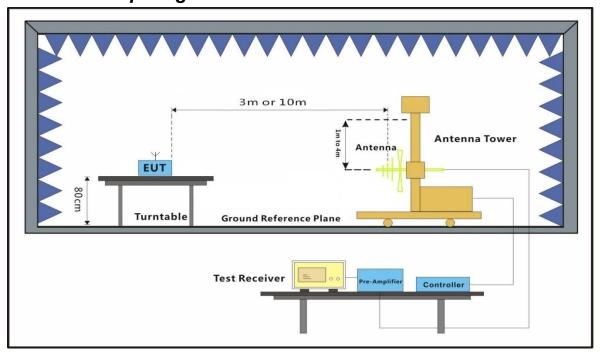
SGS North America Inc.

Connectivity & Products

iKeyless, LLC / HNHKL-G050

Page: 8 of 30





#### 4.4 Test Site

10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

**Environmental Conditions** 

 Test Date:
 27-Jan-2023
 01-Feb-2023
 01-Mar-2023

 Temperature:
 21.3°C
 21.8 °C
 22.5 °C

 Relative Humidity:
 23.0 %
 39.6 %
 39.0 %

 Atmospheric Pressure:
 98.8 kPa
 98.6 kPa
 97.9 kPa

### 4.5 Test Equipment

Test End Date: 27-Jan-2023 Tester: DA SIGNAL ANALYZER (TS8997) FSV30 **ROHDE & SCHWARZ** B085749 7-Dec-2022 7-Dec-2023 RF CABLE (TS8997) 141 **HUBER & SUHNER** B095585 5-Jul-2022 5-Jul-2023 NEAR FIELD PROBES N/A COM-POWER CORPORATION 16016 CNR CNR

Test End Date: 1-Feb-2023		Tester: DA			
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	22027	13-Sep-2022	13-Sep-2023
RF CABLE RIGHT ANGLE NM TO	90-076-020	TELEDYNE STORM MICROWAVE	20131	16-Mar-2022	16-Mar-2023
LOW NOISE AMPLIFIER	ZKL-2+	MINI-CIRCUITS	B079817	25-Aug-2022	25-Aug-2023
RF CABLE NM TO NM, 0.01-18GHZ	90-195-079	TELEDYNE STORM MICROWAVE	20124	14-Feb-2022	14-Feb-2023
RF CABLE	SF106	HUBER & SUHNER	B079713	25-Aug-2022	25-Aug-2023
N to N RF Cable	NC12-N1N1-276	MEGAPHASE	22000	9-Jan-2023	9-Jan-2024
ANTENNA, BILOG	JB6	SUNOL	B079690	19-Apr-2022	19-Apr-2024

Test End Date:	1-Mar-2023	Tester: DA			
Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	7-Dec-2022	7-Dec-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095588	5-Jul-2022	5-Jul-2023

SGS North America Inc.

Connectivity & Products

620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024

t (770) 570-1800

www.sgs.com

iKeyless, LLC / HNHKL-G050

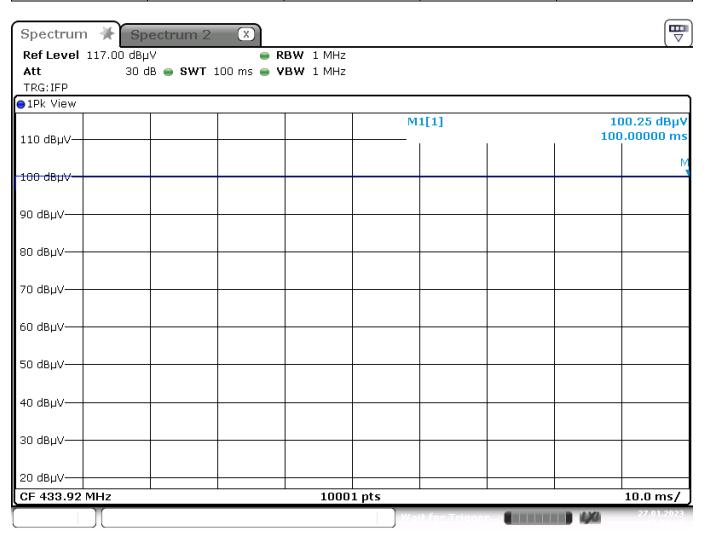
Page: 9 of 30

Software: "RSE 30-1000 MHz T7 220318" TILE7 profile dated 18 March 2022

### 4.6 Duty Cycle Correction Factor (DCCF)

Normal Operation of Device:

Duty Cycle							
Configuration	TX ON (ms)	Period, T (ms)	Duty Cycle (%)	DCCF (dB)			
Normal	100	100	100	0			



Date: 27.JAN.2023 10:59:43

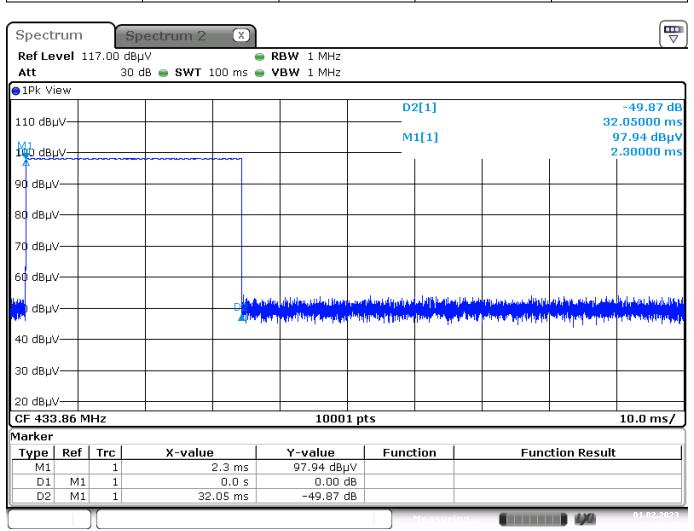


iKeyless, LLC / HNHKL-G050

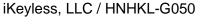
Page: 10 of 30

Duty Cycle of Device when set to Continuous Operation:

Duty Cycle							
Configuration	TX ON (ms)	Period, T (ms)	Duty Cycle (%)	DCCF (dB)			
Normal	32	100	32	-9.9			

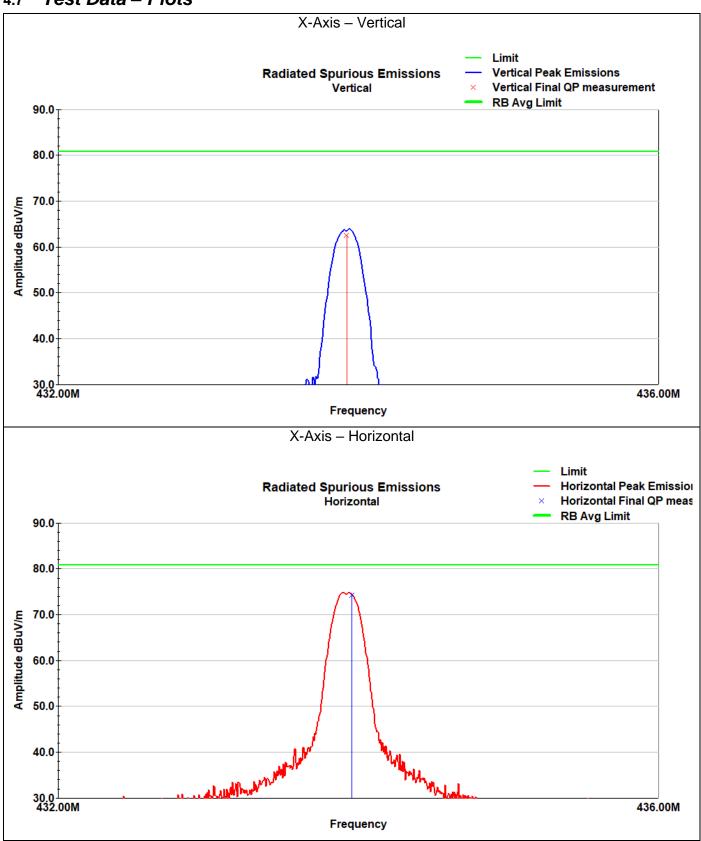


Date: 1.FEB.2023 12:16:49



Page: 11 of 30

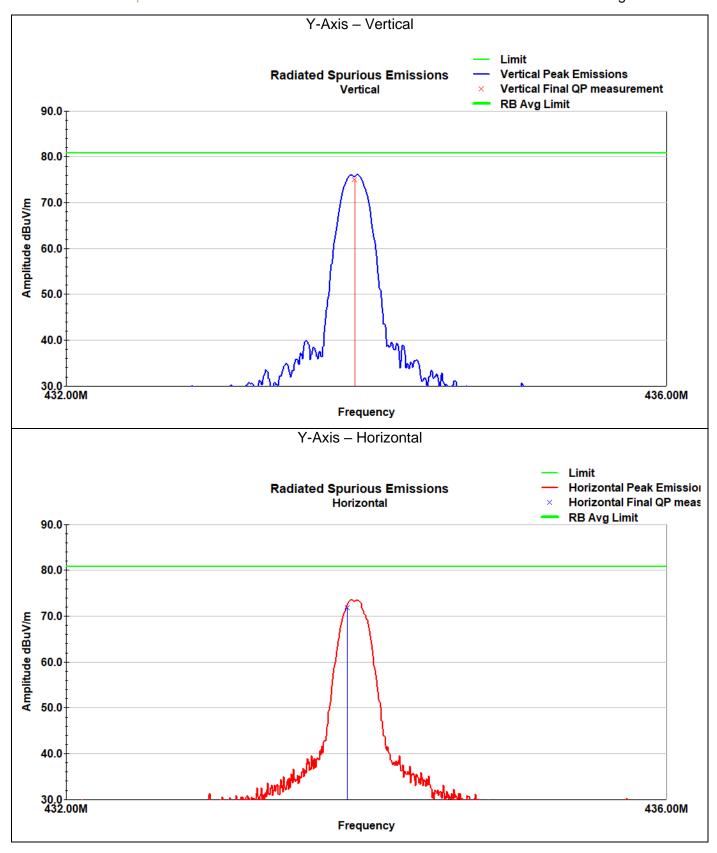
### 4.7 Test Data – Plots

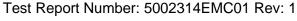


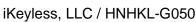




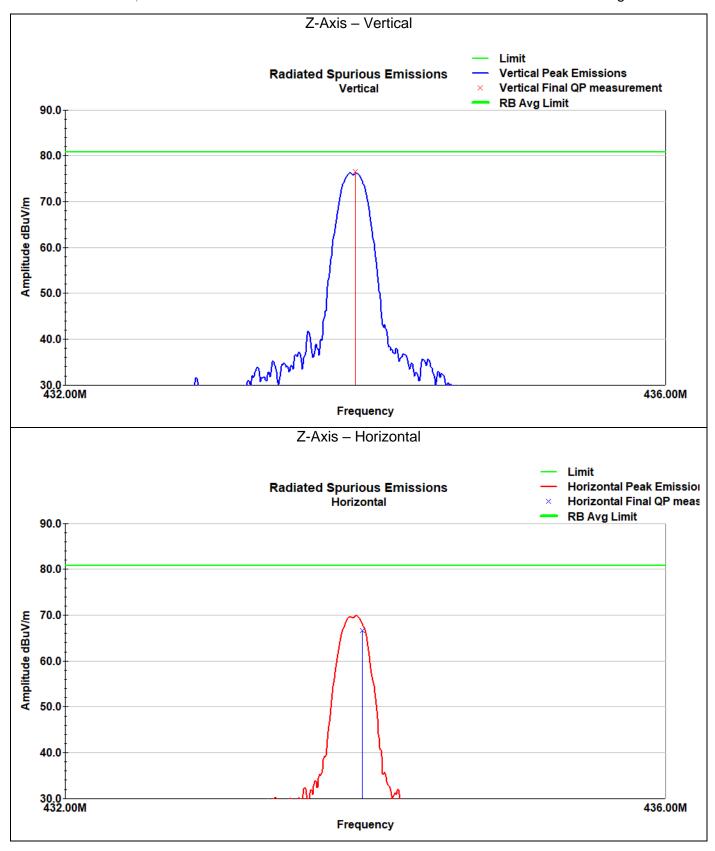
Page: 12 of 30







Page: 13 of 30





iKeyless, LLC / HNHKL-G050

Page: 14 of 30

#### Test Data – Tabular 4.8

EUT	Frequency	Raw Ave	Polarity	Azimuth	Height	DCCF	AF	Loss	Amp	Value	Ave	Margin
Axis											Limit	
	MHz	(dBuV)	(V/H)	(degrees)	(cm)	(dB)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
Х	433.92	58.4	V	166.0	266.0	9.9	20.8	3.4	30.3	62.2	80.8	-18.6
Х	433.95	69.0	Н	252.0	245.0	9.9	20.8	3.4	30.3	72.8	80.8	-8.0
Υ	433.92	70.8	V	360.0	100.0	9.9	20.8	3.4	30.3	74.6	80.8	-6.2
Υ	433.87	64.9	Н	93.0	100.0	9.9	20.8	3.4	30.3	68.7	80.8	-12.1
Z	433.93	71.9	V	181.0	117.0	9.9	20.8	3.4	30.3	75.7	80.8	-5.1
Z	433.98	59.5	Н	274.0	399.0	9.9	20.8	3.4	30.3	63.3	80.8	-17.6

800 www.sgs.com Member of the SGS Group (SGS SA)



iKeyless, LLC / HNHKL-G050

Page: 15 of 30

### 5 Field Strength of Spurious Radiation

#### 5.1 Test Result

Test Description	Test Spe	cification	Test Result
Field strength of spurious	15.231(b)	Compliant	
emissions	ANSI C63.10:20	Compliant	

#### 5.2 Test Method

Exploratory scans were performed using the max hold function and incorporating a Peak detector and using TILE! software. The final test data was measured using a Quasi-Peak detector below 1GHz and a Peak detector above 1GHz. For harmonics of the fundamental, Average measurements were made by correcting the peak value with the duty cycle correction factor. For emissions other than harmonics of the fundamental, the Average measurements were made using the Average detector. The receiver's resolution bandwidth was set to 120 kHz for measurements taken in the 30MHz to 1GHz frequency range and 1MHz for measurements for 1GHz and higher. Measurements were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna height was varied from 1 m to 4 m and the EUT was rotated 360° to find the maximum emitting point for each frequency. The radiated measurements were recorded and compared to the limits indicated in the table below.

The EUT was oriented in each of its three orthogonal axes and data for each was reported.

Limits for average value of emissions measured at 3m distance

	FCC	RSS-210			
Fundamental frequency (MHz)	Field strength of spurious emission (microvolts/meter)	Field strength of spurious emission (microvolts/meter)			
40.66-40.70	225	Not allowed			
70-130	125				
130-174	125 to 375 <sup>1</sup>				
174-260	375				
260-470	375 to 1250 <sup>1</sup>				
Above 470	1250				

Linear interpolations

From the table above, the spurious emission limit for a 433.93 MHz fundamental frequency is determined by linear interpolation to be <u>60.83 dBuV/m</u>.

Spurious emissions shall meet the average limits shown in the table above or to the general limits in §15.209, whichever limit permits a higher field strength.

SGS North America Inc.

Connectivity & Products



iKeyless, LLC / HNHKL-G050

Page: 16 of 30

#### 5.3 Test Site

10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

**Environmental Conditions** 

Test Date: 27-Jan-2023 01-Feb-2023

Temperature: 21.3°C 21.8 °C Relative Humidity: 23.0 % 39.6 % Atmospheric Pressure: 98.8 kPa 98.6 kPa

### 5.4 Test Equipment

Test End Date: 27-Jan-2023 Tester: DA

Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	7-Dec-2022	7-Dec-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095585	5-Jul-2022	5-Jul-2023
NEAR FIELD PROBES	N/A	COM-POWER CORPORATION	16016	CNR	CNR

Test End Date:	1-Feb-2023	Tester:	DA		
Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	22027	13-Sep-2022	13-Sep-2023
RF CABLE RIGHT ANGLE NM TO	90-076-020	TELEDYNE STORM MICROWAVE	20131	16-Mar-2022	16-Mar-2023
LOW NOISE AMPLIFIER	ZKL-2+	MINI-CIRCUITS	B079817	25-Aug-2022	25-Aug-2023
RF CABLE NM TO NM, 0.01-18GHZ	90-195-079	TELEDYNE STORM MICROWAVE	20124	14-Feb-2022	14-Feb-2023
RF CABLE	SF106	HUBER & SUHNER	B079713	25-Aug-2022	25-Aug-2023
N to N RF Cable	NC12-N1N1-276	MEGAPHASE	22000	9-Jan-2023	9-Jan-2024
ANTENNA, BILOG	JB6	SUNOL	B079690	19-Apr-2022	19-Apr-2024

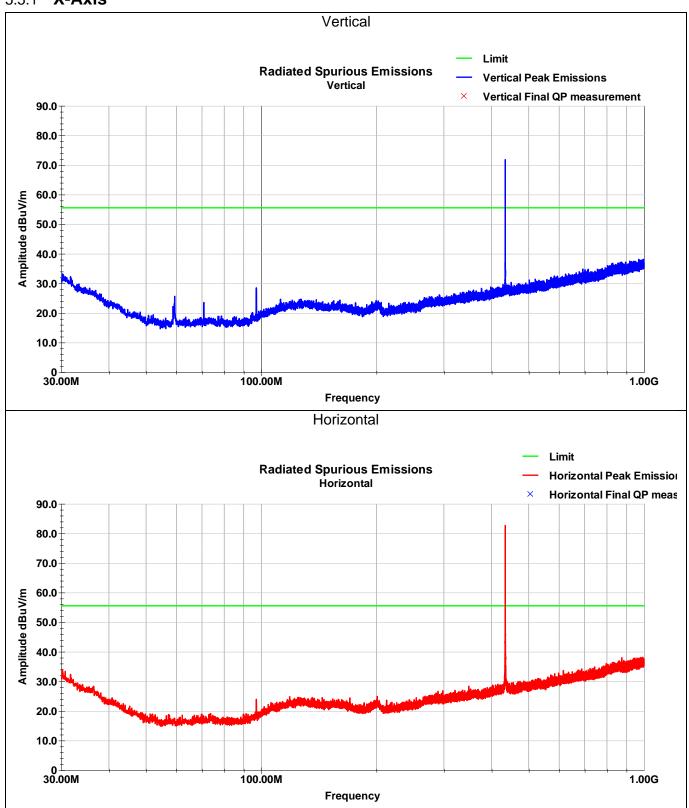
Software: "RSE 30-1000 MHz T7 220318" TILE7 profile dated 18 March 2022

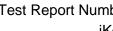


Page: 17 of 30

#### 5.5 Test Data - Below 1 GHz

#### 5.5.1 **X-Axis**

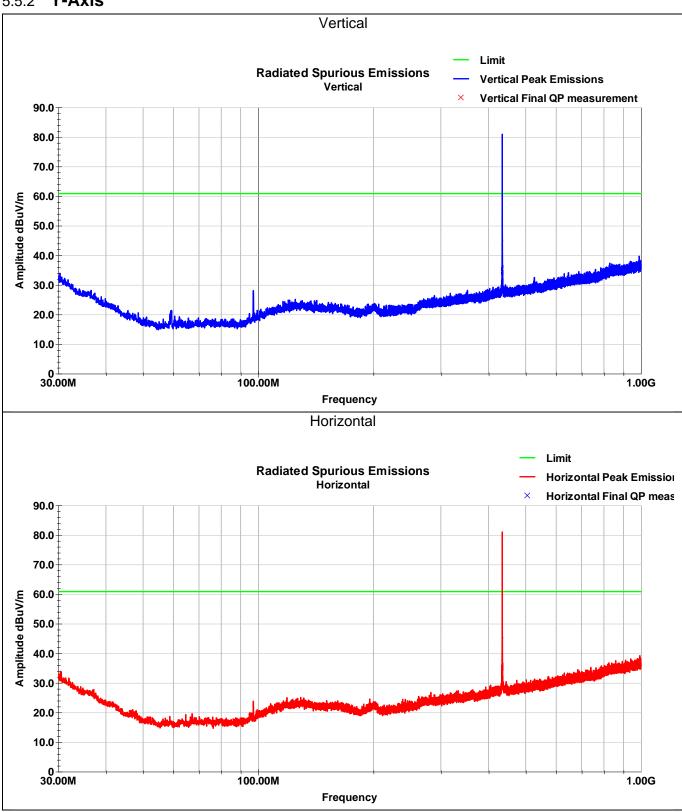




Test Report Number: 5002314EMC01 Rev: 1 iKeyless, LLC / HNHKL-G050

Page: 18 of 30

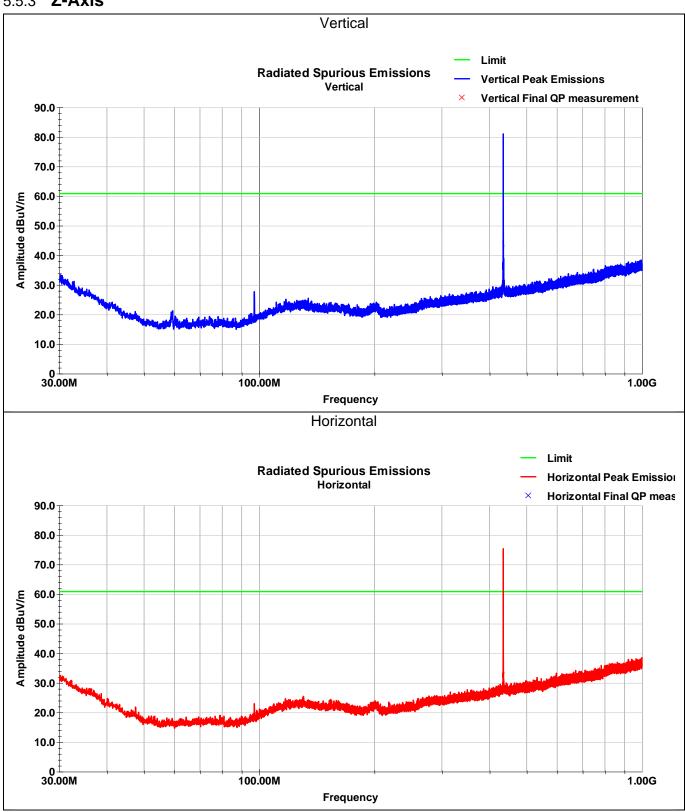
#### 5.5.2 **Y-Axis**





Page: 19 of 30

#### 5.5.3 **Z-Axis**



Only intentional radiator exceeds spurious emission limit

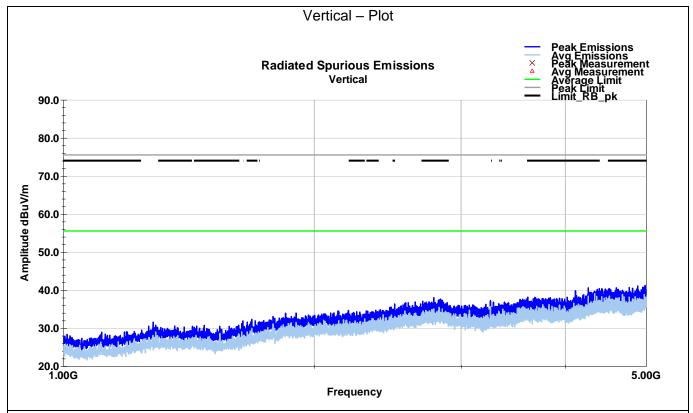


iKeyless, LLC / HNHKL-G050

Page: 20 of 30

#### 5.6 Test Data - Above 1 GHz

#### 5.6.1 **X-Axis**



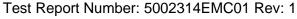
Vertical - Tabular Data

None

No discernable emissions detected above noise floor.

SGS North America Inc.

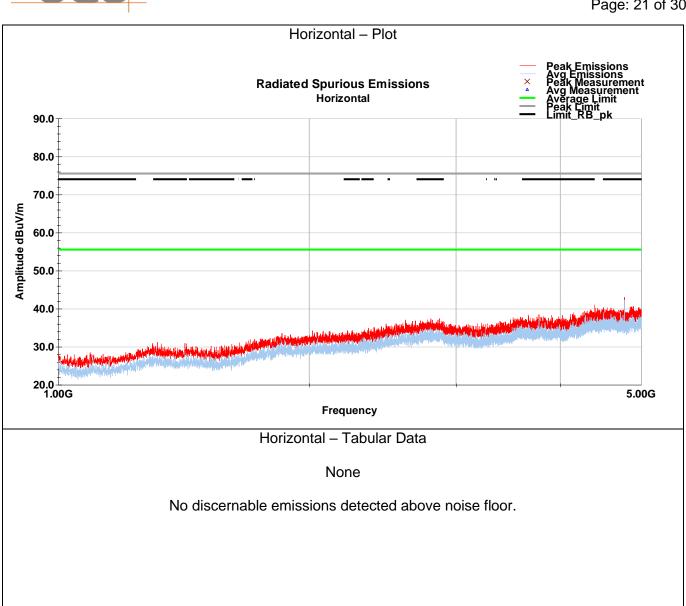
Connectivity & Products

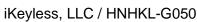


iKeyless, LLC / HNHKL-G050

Page: 21 of 30

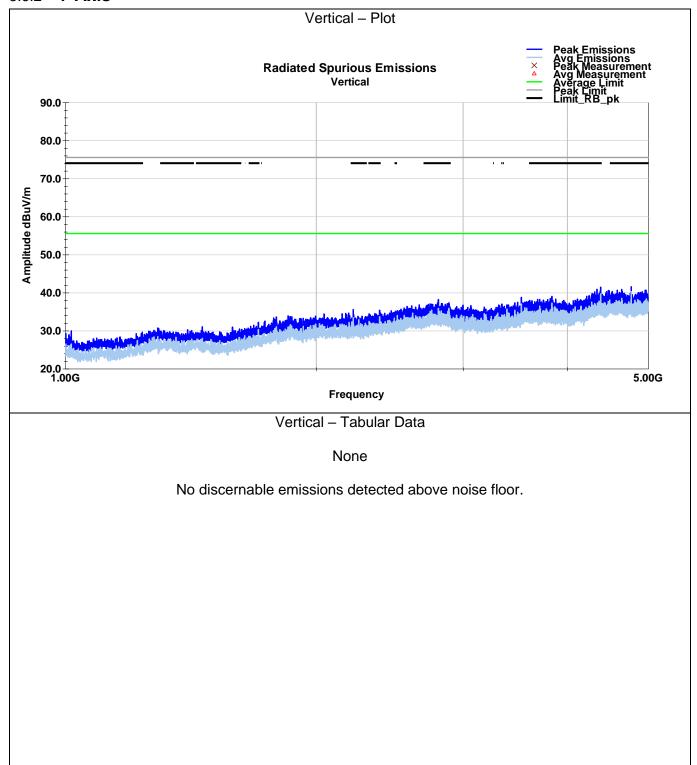


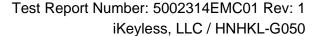




Page: 22 of 30

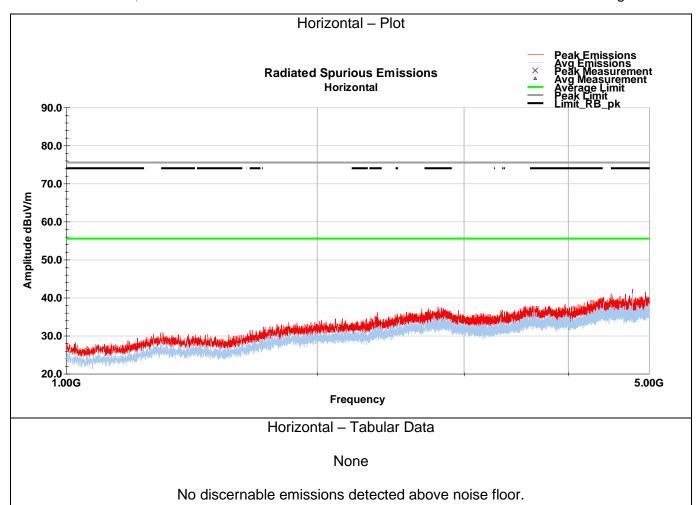
#### 5.6.2 **Y-Axis**

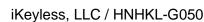






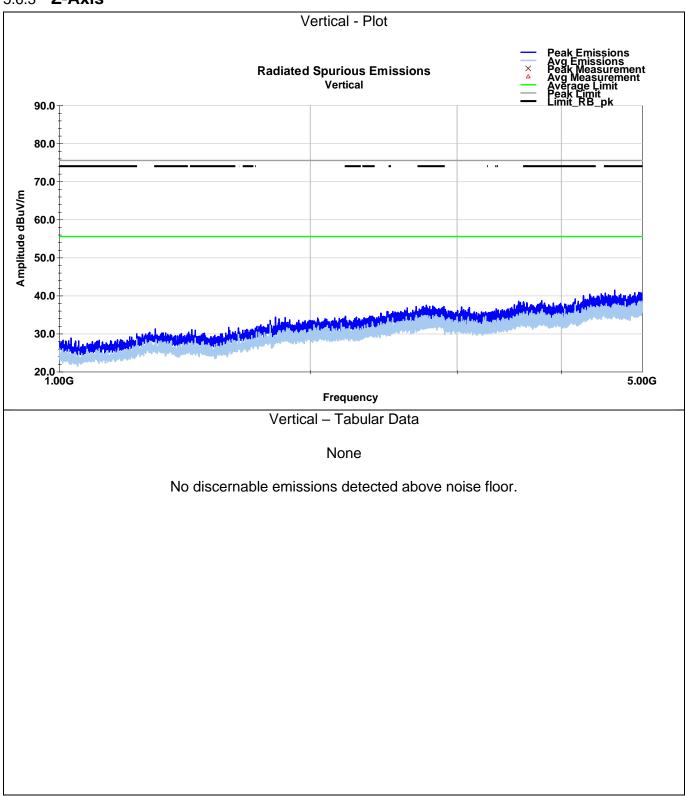
Page: 23 of 30





Page: 24 of 30

#### 5.6.3 **Z-Axis**

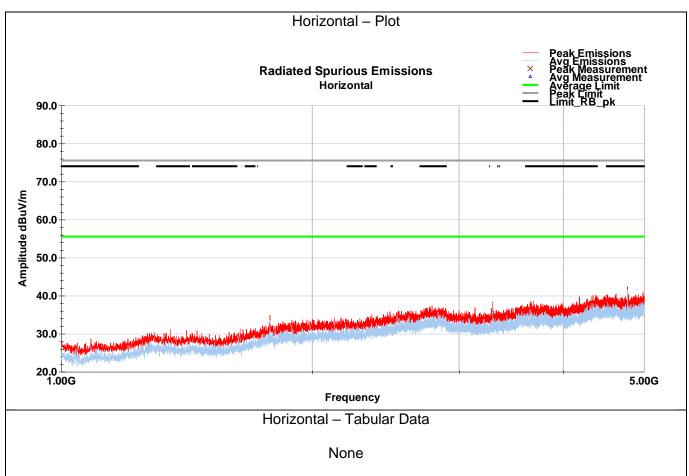






iKeyless, LLC / HNHKL-G050

Page: 25 of 30



No discernable emissions detected above noise floor.



iKeyless, LLC / HNHKL-G050

Page: 26 of 30

### 6 Bandwidth

#### 6.1 Test Result

Test Description	Test Spe	Test Result	
20 dB Bandwidth	15.231(c)	RSS-210 A.1.3	Compliant

#### 6.2 Test Method

The procedures from ANSI C63.10 (2013) clause 6.9 were used to determine the 20 dB bandwidth.

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

#### 6.3 Test Site

SGS EMC Laboratory, Suwanee, GA

**Environmental Conditions** 

Temperature: 21.8 °C Relative Humidity: 26.7 % Atmospheric Pressure: 98.7 kPa

### 6.4 Test Equipment

Test End Date	Tester: DA				
Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	7-Dec-2022	7-Dec-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095585	5-Jul-2022	5-Jul-2023
NEAR FIELD PROBES	N/A	COM-POWER CORPORATION	16016	CNR	CNR

SGS North America Inc.

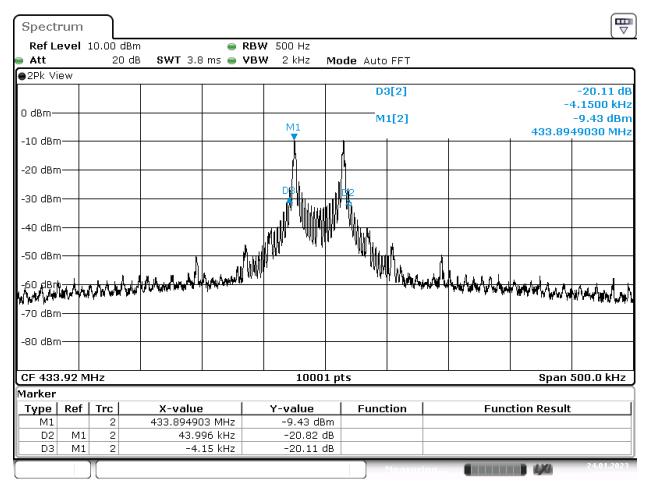
Connectivity & Products



iKeyless, LLC / HNHKL-G050

Page: 27 of 30

#### 6.5 Test Data



Date: 24.JAN.2023 14:53:51

The maximum allowable bandwidth is 0.25% of 433.92 MHz which is 1.084MHz. The measured bandwidth derived from the plot above is 48.146kHz. The EUT complies with the limit.



iKeyless, LLC / HNHKL-G050

Page: 28 of 30

### 7 Deactivation Time

#### 7.1 Test Result

Test Description	Test Spe	Test Result	
Departivation time, manual	15.231(a)(1)	Compliant	
Deactivation time, manual	ANSI C63.10:20	Compliant	

#### 7.2 Test Method

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### 7.3 Test Site

SGS EMC Laboratory, Suwanee, GA

**Environmental Conditions** 

Temperature: 21.8 °C Relative Humidity: 26.7 % Atmospheric Pressure: 98.7 kPa

#### 7.4 Test Equipment

Test End Date: 24-Jan-2023 Tester: DA

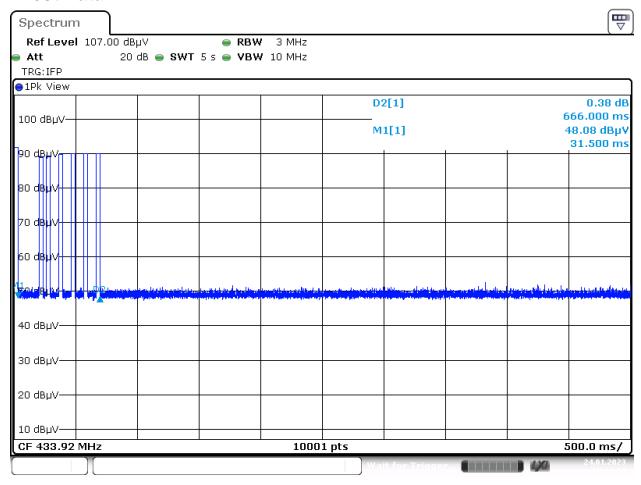
Equipment	Model	Manufacturer	Asset	Cal Date	Cal Due Date
SIGNAL ANALYZER (TS8997)	FSV30	ROHDE & SCHWARZ	B085749	7-Dec-2022	7-Dec-2023
RF CABLE (TS8997)	141	HUBER & SUHNER	B095585	5-Jul-2022	5-Jul-2023
NEAR FIELD PROBES	N/A	COM-POWER CORPORATION	16016	CNR	CNR

CNR = Calibration not required



iKeyless, LLC / HNHKL-G050 Page: 29 of 30

#### 7.5 Test Data



Date: 24.JAN.2023 15:11:22

The transmitter is deactivated within 0.4 seconds of the button being released.



iKeyless, LLC / HNHKL-G050

Page: 30 of 30

## 8 Revision History

Revision Level	Description of changes	Revision Date
Draft	<b>.</b>	02 February 2023
0	Initial release	02 February 2023
1	Re-testing of Field Strength of Fundamental with lower output.	02 March 2023

SGS North America Inc.

Connectivity & Products