



**RETLIF  
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**FCC Part 15, Subpart C, Section 15.247  
Test Report**

On

iSecure Go Anywhere Hub  
FCC ID: AD8ISECHUB

**Customer Name:** Napco Security Technologies, Inc.

**Customer P.O.:** PR57115-00

**Date of Report:** July 23, 2020

**Test Report No:** R-17172-1, Rev. A

**Test Start Date:** November 26, 2019

**Test Finish Date:** December 13, 2019

**Test Technicians:** K. Luning, M. Griffiths

**Test Engineer:** R. Soodoo

**Approved By:** R. Hull

**Report Rev. Prepared By:** D. Hull

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## Technical Information

**Report Number:** R-17172-1, Rev. A

**Customer:** Napco Security Technologies, Inc.

**Address:** 333 Bayview Avenue  
Amityville, NY 11701

**Manufacturer:** Napco Security Technologies, Inc.

**Manufacturer Address:** 333 Bayview Avenue  
Amityville, NY 11701

**Test Sample:** iSecure Go Anywhere Hub

**Model Number:** GOANYWHEREHUB

**FCC ID:** AD8ISECHUB  
Digital Transmission - Direct Sequence Spread Spectrum

**Type:** Transmitter

**Power Requirements:** 16 VAC from Wall Adapter with 12 V @ 4 AH Battery Backup

**Frequency of Operation:** 906 - 925.5 MHz

**Equipment Class:** DTS

**Equipment Use:** Fixed  
900 MHz Half-Wave Internal Antenna

**Antenna Type:** 319 MHz Loop Internal Antenna

**Equipment Use:** Security Alarm System

### Test Specification:

FCC Rules and Regulations Part 15, Subpart C, Section 15.247

### Test Procedure:

ANSI C63.4:2014

ANSI C63.10:2013

FCC 558074 D01 15.247 Meas Guidance V05r02 April 2, 2019

### Test Facility:

Retlif Testing Laboratories

795 Marconi Avenue

Ronkonkoma, NY 11779

FCC Accreditation Designation Number: US2322



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### Tests Performed

| <b>FCC<br/>Part 15, Subpart C</b> | <b>Test Method</b>                                  |
|-----------------------------------|-----------------------------------------------------|
| 15.247(a)(2)                      | Occupied Bandwidth                                  |
| 15.247(b)(3)                      | Power Output                                        |
| 15.247(d)                         | Antenna Port, Conducted Emissions                   |
| 15.247(e)                         | Antenna Port, Power Density                         |
| 15.209(a)                         | Spurious Radiated Emissions, 30 MHz to 1 GHz        |
| 15.247(d) and 15.205              | Spurious Radiated Emissions, 1 GHz to 10 GHz        |
| 15.207(a)                         | Conducted Emissions, Power Leads, 150 kHz to 30 MHz |

#### **EUT Operation:**

The Hub is the central unit that forms the alarm panel. The Hub connects to a variety of wireless sensors that perform various sensor interfaces in the premises. The data is gathered under software control and this status is processed and relayed to a central monitoring station.



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## Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Rennie Soodoo  
EMI Test Engineer



Michael Giffiths  
EMI Laboratory Supervisor

### Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

### Non-Endorsement

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



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Report No. R-17172-1, Rev. A

## Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document:

| Revision | Date              | Pages Affected                                                                                                                                                                                            |
|----------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -        | February 11, 2020 | Original Release                                                                                                                                                                                          |
| A        | July 23, 2020     | Global Changes: <ul style="list-style-type: none"><li>• Test Report No. R-17172-1 to R-17172-1, Rev. A</li></ul> 11, 12: <ul style="list-style-type: none"><li>• Update RF Exposure Calculation</li></ul> |



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Report No. R-17172-1, Rev. A

## **Requirements and Test Results**

### **Requirement:**

#### **FCC Section 15.247(a)(2)**

##### **Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz**

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands. The minimum 6 dB bandwidths shall be at least 500 kHz.

- **Results:**

The minimum 6 dB bandwidth measured 560 kHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

### **Requirement:**

#### **FCC Sections 15.247(b)(3)**

##### **Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz**

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For systems using digital modulation in the 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antenna and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antenna and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- **Results:**

The device operates in the 902 - 928 MHz band. The maximum peak conducted output power was measured and was found to be 13.8 mWatts, in compliance with the specified limit of 1 watt.



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## Requirements and Test Results (con't)

### Requirement:

#### FCC Section 15.247(d):

#### Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) must also comply with the radiated emissions limits specified in Section 15.209(a) (see Section 15.205(c)).

- Results:

In any 100 kHz bandwidth outside the frequency band in which the Spread spectrum intentional radiator was operating, the radio frequency power that was produced by the intentional radiator was at least 20 dB below that in the 100 kHz bandwidth within the band that contained the highest level of the desired power. All emissions, which fell within the restricted bands specified in 15.205(a), were measured and found to be in compliance with the limits specified in 15.209(a).



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**Requirement:**

**FCC Section 15.247(e):**

**Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz and 5725 - 5850 MHz**

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

- **Results:**

The power spectral density conducted from the intentional radiator to the antenna was not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density was determined in accordance with Section 15.247(b)(3), herein. The same method of determining the conducted output power was used to determine the power spectral density.

**Requirement:**

**FCC Section 15.209(a) - Radiated Emission Limits, General Requirements**

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 1.

Table 1 - Radiated Emission Limits

| Frequency of Emission<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|--------------------------------|--------------------------------------|----------------------------------|
| 30 to 88                       | 100                                  | 3                                |
| 88 to 216                      | 150                                  | 3                                |
| 216 to 960                     | 200                                  | 3                                |
| Above 960                      | 500                                  | 3                                |

- **Results:**

The field strength of spurious radiated emissions did not exceed the limits specified in Table 1.



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## Requirements and Test Results (con't)

### Requirement:

#### FCC Section 15.207(a) - Conducted Limits

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits shown in Table 2, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of the paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network.

Table 2 - Conducted Emission Limits

| Frequency of Emission (MHz)                  | Conducted Limit (dB $\mu$ V) |           |
|----------------------------------------------|------------------------------|-----------|
|                                              | Quasi-Peak                   | Average   |
| 0.15 to 0.5                                  | 66 to 56*                    | 56 to 46* |
| 0.5 to 5                                     | 56                           | 46        |
| 5 to 30                                      | 60                           | 50        |
| *Decreases due to logarithm of the frequency |                              |           |

- Results:  
The conducted emissions observed did not exceed the limits specified in Table 2.



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## Requirements and Test Results (con't)

### Field Strength Calculation/Conversion:

The maximized field strength of the emission was obtained as follows:

$$C_R = M_R + C_F$$

Where:

$C_R$  = Corrected Reading in dB $\mu$ V/m

$M_R$  = Uncorrected Meter Reading in dB $\mu$ V

$C_F$  = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

$$M_R = 15.35 \text{ dB}\mu\text{V}$$

$$C_F = 16.85 \text{ dB}$$

$$C_R = 15.35 \text{ dB}\mu\text{V} + 16.85 = 32.2 \text{ dB}\mu\text{V/m}$$

dB $\mu$ V/M is converted to uV/M for comparison to the specified limit using the formula:

$$\text{invLog dB}\mu\text{V/M}/20$$

$$32.2 \text{ dB}\mu\text{V/m} = 40.74 \text{ uV/m}$$

### RF Power Conversion:

Power readings in dBm may be converted to mW using the formula:

$$\text{InvLog dBm}/10$$

$$\text{Example: } 20\text{dBm} = 100\text{mW}$$



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## Requirements and Test Results (con't)

### **FCC Section 15.247 (i)**

#### **RF Exposure Limits**

Spread Spectrum Transmitters operating under 15.247 must be operated in a manner that ensures the public is not exposed to RF energy levels in excess of the commission's guidelines. Based on the transmitter power and maximum antenna gain (see calculation below) the minimum separation distance was calculated to determine the distance for acceptable MPE power density levels to meet both the Occupational/Controlled Exposure and the General Population/Uncontrolled Exposure requirements of FCC Part 1.1310. The calculation below uses the more stringent General Population MPE Limits.

$$S = \frac{PG}{4\pi D^2}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cm<sup>2</sup>

Per 1.1310 for the Frequency of 902 MHz S = 0.6 mW/cm<sup>2</sup>

Power = Max Power Input to Antenna = 13.8 mW

Gain = Max Power Gain of Antenna = 2 dBi = 1.58 numeric

$$0.6 \text{ mW/cm}^2 = \frac{13.8 \times 1.58}{4 \times (3.14) \times D^2} = \frac{21.8}{12.56 \times D^2} =$$

$$D^2 = \frac{21.8}{12.56 \times 0.6} = \sqrt{2.89}$$

D = 1.7 cm

The test sample has an internal antenna and the minimum separation distance will always be maintained.



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## RF Exposure Limits (con't)

Note: The calculation below is for the cellular transmitter based on information found under modular approval for FCC ID: QIPELS31-V

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 for the Frequency of 1755 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 251 mW

Gain = Max Power Gain of Antenna = 2 dBi = 1.58 numeric

$$1 \text{ mW/cmsq} = \frac{251 \times 1.58}{4 \times (3.14) \times D^2} = \frac{396.58}{12.56 \times D^2}$$

$$D^2 = \frac{396.58}{12.56 \times 1} = \sqrt{31.57}$$

D = 5.6 cm

**Max % MPE – 13.6%\***

\*In accordance with KDB 447498 D01 v06, section 7.2 Transmitters used in mobile device exposure conditions for simultaneous transmission operations, excel spreadsheet for simple antenna configurations.



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### Equipment List

#### FCC Section 15.247(a)(2) Occupied Bandwidth

| EN   | Manufacturer | Description        | Range                      | Model No. | Cal Date  | Due Date  |
|------|--------------|--------------------|----------------------------|-----------|-----------|-----------|
| 1616 | OMEGA        | HYGROMETER         | -20 to 70 deg. C, 0-99% RH | OM-73     | 9/24/2019 | 3/31/2020 |
| 763  | AGILENT / HP | ANALYZER, SPECTRUM | 30 Hz - 13.2 GHz           | E4405B    | 3/28/2019 | 3/31/2020 |

#### FCC Section 15.247(b)(3) Power Output

| EN   | Manufacturer | Description        | Range                      | Model No. | Cal Date  | Due Date  |
|------|--------------|--------------------|----------------------------|-----------|-----------|-----------|
| 1616 | OMEGA        | HYGROMETER         | -20 to 70 deg. C, 0-99% RH | OM-73     | 9/24/2019 | 3/31/2020 |
| 763  | AGILENT / HP | ANALYZER, SPECTRUM | 30 Hz - 13.2 GHz           | E4405B    | 3/28/2019 | 3/31/2020 |

#### FCC Section 15.247(d) Antenna Port, Conducted Emissions

| EN   | Manufacturer | Description        | Range                      | Model No. | Cal Date  | Due Date  |
|------|--------------|--------------------|----------------------------|-----------|-----------|-----------|
| 1616 | OMEGA        | HYGROMETER         | -20 to 70 deg. C, 0-99% RH | OM-73     | 9/24/2019 | 3/31/2020 |
| 763  | AGILENT / HP | ANALYZER, SPECTRUM | 30 Hz - 13.2 GHz           | E4405B    | 3/28/2019 | 3/31/2020 |

#### FCC Section 15.247(e) Antenna Port, Power Density

| EN   | Manufacturer | Description        | Range                      | Model No. | Cal Date  | Due Date  |
|------|--------------|--------------------|----------------------------|-----------|-----------|-----------|
| 1616 | OMEGA        | HYGROMETER         | -20 to 70 deg. C, 0-99% RH | OM-73     | 9/24/2019 | 3/31/2020 |
| 763  | AGILENT / HP | ANALYZER, SPECTRUM | 30 Hz - 13.2 GHz           | E4405B    | 3/28/2019 | 3/31/2020 |



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**FCC Section 15.247(d) and 15.205  
Spurious Radiated Emissions, 30 MHz to 10 GHz**

| EN    | Manufacturer | Description                      | Range                   | Model No.            | Cal Date   | Due Date   |
|-------|--------------|----------------------------------|-------------------------|----------------------|------------|------------|
| 067C  | RETLIF       | OPEN AREA TEST SITE, ATTENUATION | 3 Meter, 30 MHz - 1 GHz | RNY                  | 5/15/2019  | 5/31/2021  |
| 067E  | RETLIF       | OPEN AREA TEST SITE, SVSWR       | 3 Meter, 1 - 18 GHz     | RNY                  | 6/14/2019  | 6/30/2021  |
| 10028 | AGILENT / HP | ANALYZER, SPECTRUM               | 9 kHz - 22 GHz          | 8592L                | 11/7/2019  | 11/30/2020 |
| 1356  | ETS / EMCO   | ANTENNA, DOUBLE RIDGED GUIDE     | 1 - 18 GHz              | 3117                 | 10/23/2018 | 4/30/2020  |
| 543   | AGILENT / HP | PRE-AMPLIFIER                    | 1 - 26.5 GHz            | 8449B                | 6/5/2019   | 6/30/2020  |
| 544   | AGILENT / HP | ANALYZER, SPECTRUM               | 9.0 KHz - 1.8 GHz       | 8591EM               | 6/4/2019   | 6/30/2020  |
| 7033  | ETS / EMCO   | ANTENNA, BICONICAL               | 20 - 200 MHz            | 3110                 | 2/19/2019  | 8/31/2020  |
| 7034  | ETS / EMCO   | ANTENNA, LOG PERIODIC            | 200 MHz - 1 GHz         | 3146                 | 6/15/2018  | 12/31/2019 |
| 712A  | MICRO-COAX   | CABLE, COAXIAL                   | 10 KHz - 18 GHz         | UFB311A-1-240050U50U | 11/11/2019 | 11/30/2020 |
| 712B  | MICRO-COAX   | CABLE, COAXIAL                   | 10 KHz - 18 GHz         | UFB311A-1-072050U50U | 11/11/2019 | 11/30/2020 |

**FCC Section 15.207(a)  
Conducted Emissions, Power Leads, 150 kHz to 30 MHz**

| EN   | Manufacturer      | Description         | Range                    | Model No.          | Cal Date  | Due Date   |
|------|-------------------|---------------------|--------------------------|--------------------|-----------|------------|
| 1375 | NARDA MICROWAVE   | ATTENUATOR, COAXIAL | 10 dB, DC - 11 GHz, 20 W | 768-10             | 10/9/2019 | 10/31/2020 |
| 1677 | COM-POWER         | GENERATOR, COMB     | 100 kHz - 400 MHz        | CGC-510E           | 6/21/2019 | 6/30/2020  |
| 1704 | SOLAR ELECTRONICS | LISN                | 50 uH, 150 kHz - 30 MHz  | 21106-50-BP-25-BNC | 2/4/2019  | 2/29/2020  |
| 1705 | SOLAR ELECTRONICS | LISN                | 50 uH, 150 kHz - 30 MHz  | 21106-50-BP-25-BNC | 2/4/2019  | 2/29/2020  |
| 544  | AGILENT / HP      | ANALYZER, SPECTRUM  | 9.0 KHz - 1.8 GHz        | 8591EM             | 6/4/2019  | 6/30/2020  |



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**FCC Part 15, Subpart C, Section 15.247(a)(2)  
Occupied Bandwidth  
Test Data**



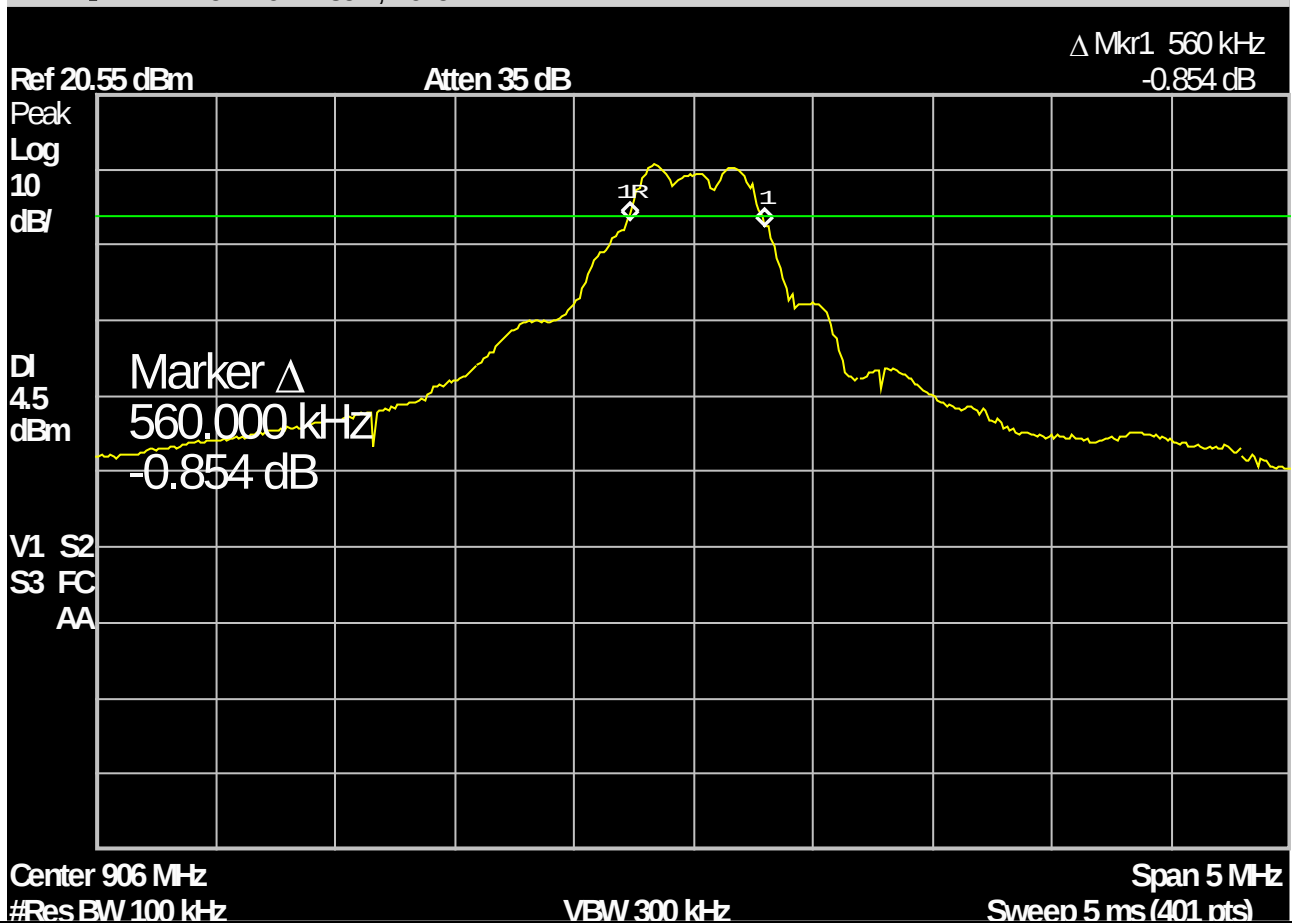
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## EMISSIONS TEST DATA SHEET

|                              |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| <b>Test Method:</b>          | Occupied Bandwidth                                                     |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph 15.247 (a)(2)                        |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                          |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                          |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                             |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7       |
| <b>Technician:</b>           | R. Soodoo                                                              |
| <b>Date(s):</b>              | December 4, 2019                                                       |
| <b>Temperature:</b>          | 20.9°C                                                                 |
| <b>Relative Humidity:</b>    | 30.9%                                                                  |
| <b>Notes:</b>                | Minimum 6dB Bandwidth Limit: 500 kHz , Measured 6dB Bandwidth: 560 kHz |

Agilent 16:17:02 Dec 4, 2019



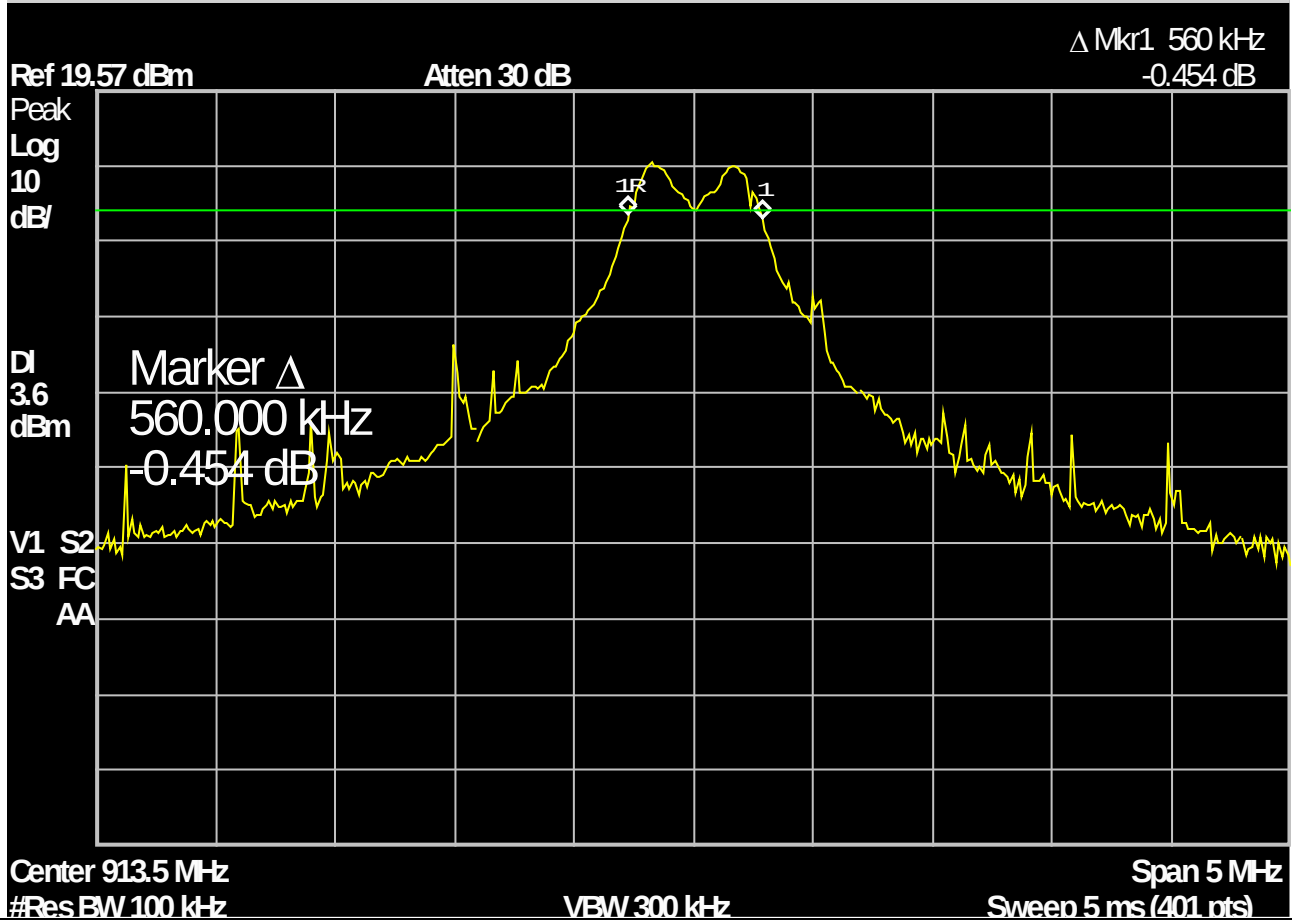
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## EMISSIONS TEST DATA SHEET

|                              |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| <b>Test Method:</b>          | Occupied Bandwidth                                                     |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph 15.247 (a)(2)                        |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                          |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                          |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                             |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 913.5 MHz on channel 22      |
| <b>Technician:</b>           | R. Soodoo                                                              |
| <b>Date(s):</b>              | December 4, 2019                                                       |
| <b>Temperature:</b>          | 20.9°C                                                                 |
| <b>Relative Humidity:</b>    | 30.9%                                                                  |
| <b>Notes:</b>                | Minimum 6dB Bandwidth Limit: 500 kHz , Measured 6dB Bandwidth: 560 kHz |

Agilent 15:30:10 Dec 4, 2019



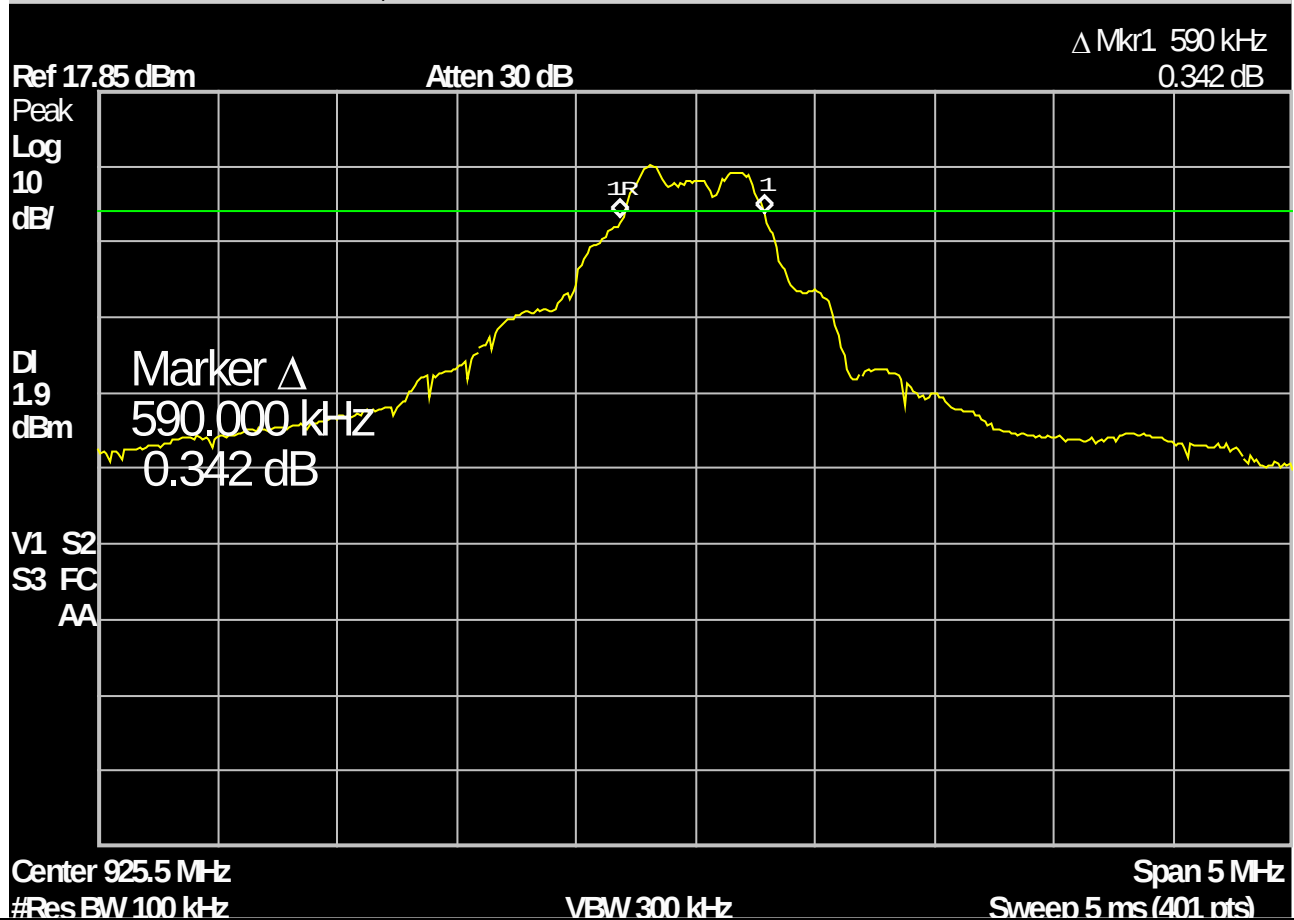
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## EMISSIONS TEST DATA SHEET

|                              |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| <b>Test Method:</b>          | Occupied Bandwidth                                                     |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph 15.247 (a)(2)                        |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                          |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                          |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                             |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 22      |
| <b>Technician:</b>           | R. Soodoo                                                              |
| <b>Date(s):</b>              | December 4, 2019                                                       |
| <b>Temperature:</b>          | 20.9°C                                                                 |
| <b>Relative Humidity:</b>    | 30.9%                                                                  |
| <b>Notes:</b>                | Minimum 6dB Bandwidth Limit: 500 kHz , Measured 6dB Bandwidth: 590 kHz |

Agilent 14:56:44 Dec 4, 2019



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**FCC Part 15, Subpart C, Section 15.247(b)(3)  
Conducted Emissions, Power Output  
Test Data**



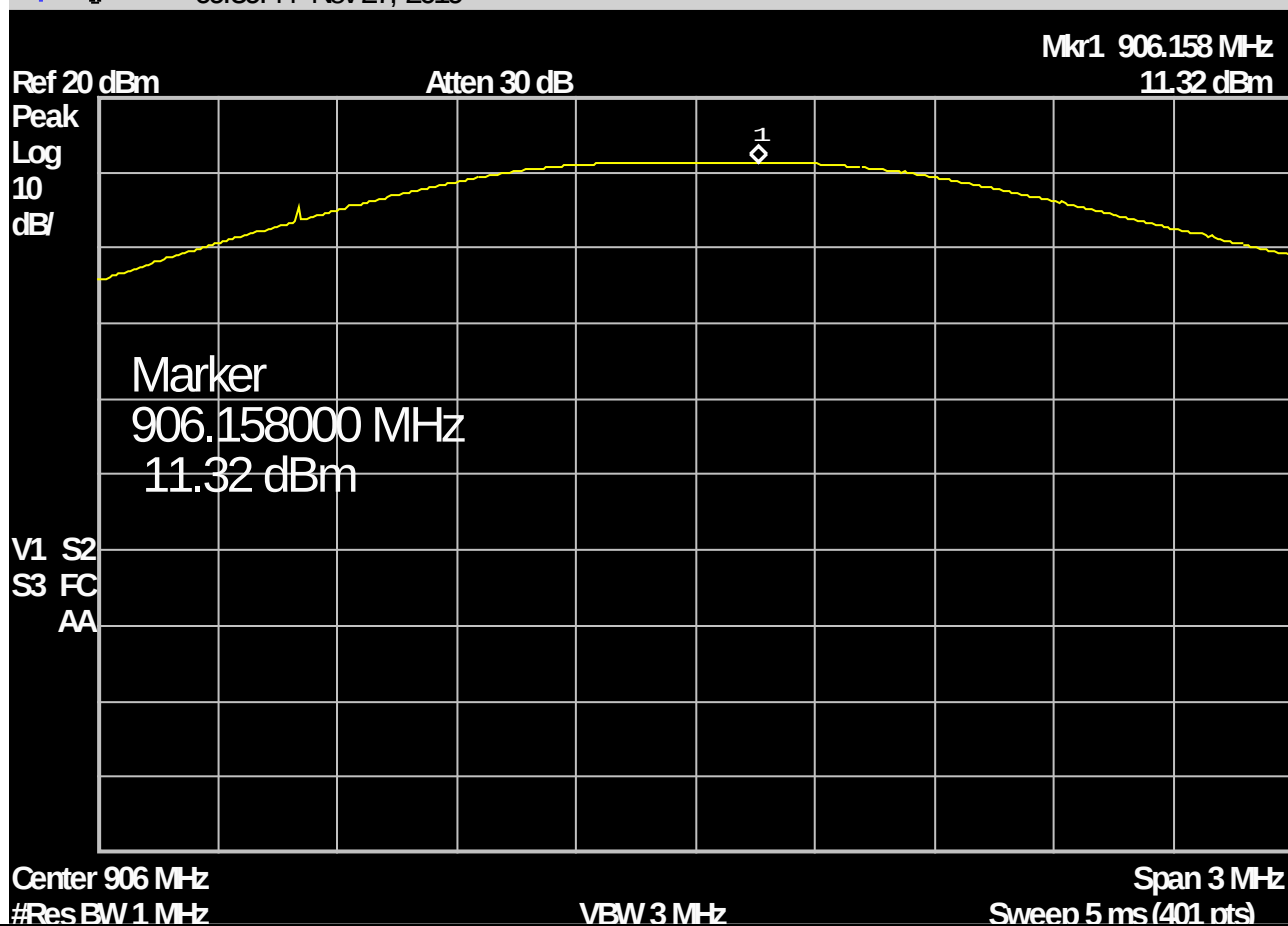
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Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>           | Power Output                                                                                                |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (b)(3)                                                            |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                               |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                                                                     |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                                                               |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                                                                  |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7                                            |
| <b>Technician:</b>            | K. Luning                                                                                                   |
| <b>Date(s):</b>               | November 27, 2019                                                                                           |
| <b>Temperature:</b>           | 20.6°C                                                                                                      |
| <b>Relative Humidity:</b>     | 40.5%                                                                                                       |
| <b>Notes:</b>                 | Method: ANSI C63.10, 11.9.1.1 RBW≥DTS Bandwidth<br>Maximum Power Output: 1.0W, Measure Power Output: 13.6mW |

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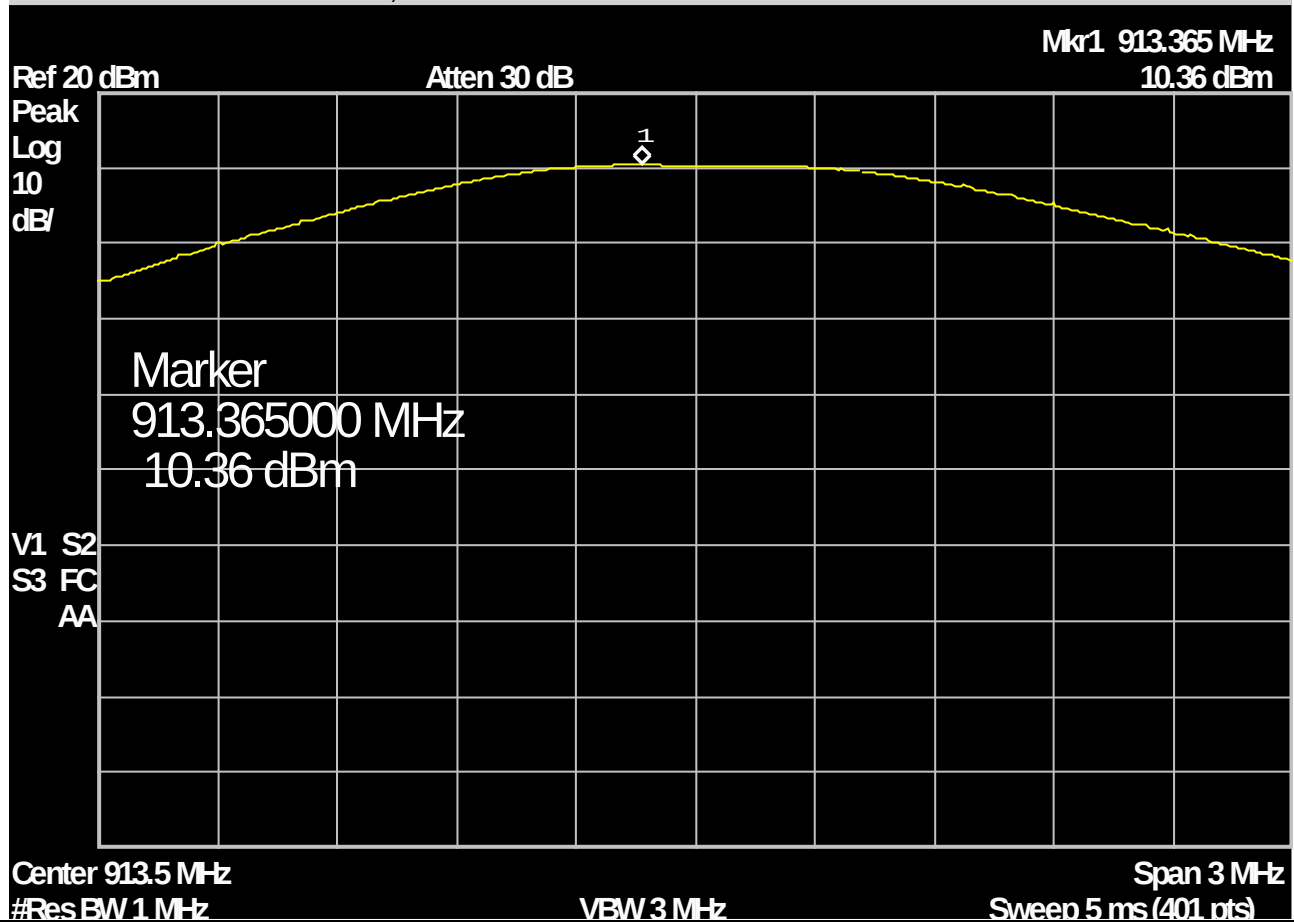
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                                                             |
|-------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>           | Power Output                                                                                                |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (b)(3)                                                            |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                               |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                                                                     |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                                                               |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                                                                  |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 913.5 MHz on channel 22                                           |
| <b>Technician:</b>            | K. Luning                                                                                                   |
| <b>Date(s):</b>               | November 27, 2019                                                                                           |
| <b>Temperature:</b>           | 20.6°C                                                                                                      |
| <b>Relative Humidity:</b>     | 40.5%                                                                                                       |
| <b>Notes:</b>                 | Method: ANSI C63.10, 11.9.1.1 RBW≥DTS Bandwidth<br>Maximum Power Output: 1.0W, Measure Power Output: 10.9mW |

Agilent 10:07:40 Nov 27, 2019



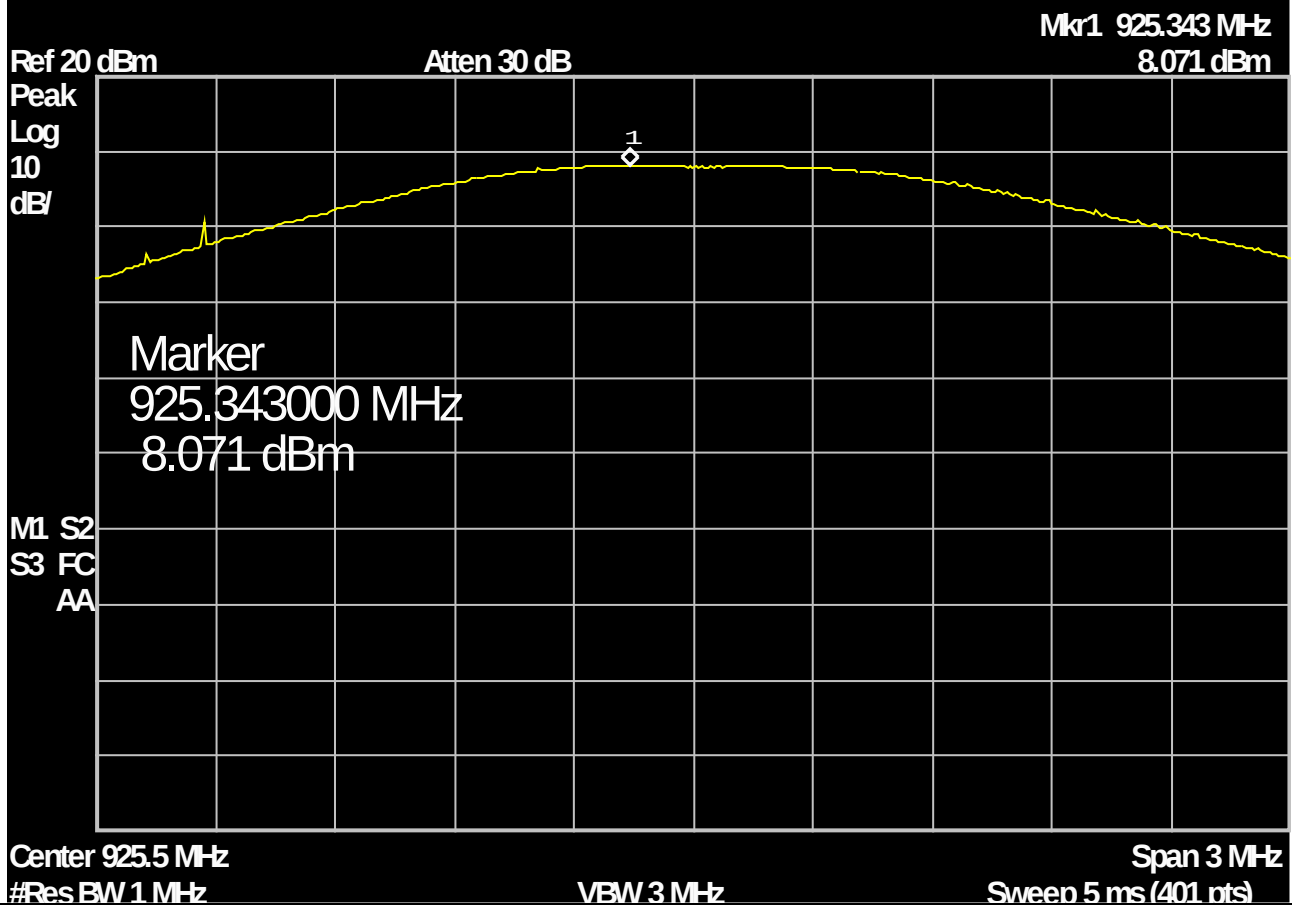
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>           | Power Output                                                                                               |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (b)(3)                                                           |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                              |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                                                                    |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                                                              |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                                                                 |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 28                                          |
| <b>Technician:</b>            | K. Luning                                                                                                  |
| <b>Date(s):</b>               | November 27, 2019                                                                                          |
| <b>Temperature:</b>           | 20.6°C                                                                                                     |
| <b>Relative Humidity:</b>     | 40.5%                                                                                                      |
| <b>Notes:</b>                 | Method: ANSI C63.10, 11.9.1.1 RBW≥DTS Bandwidth<br>Maximum Power Output: 1.0W, Measure Power Output: 6.4mW |

Agilent 10:04:10 Nov 27, 2019



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Report No. R-17172-1, Rev. A

**FCC Part 15, Subpart C, Section 15.247(d)  
Antenna Port, Conducted Emissions  
Test Data**



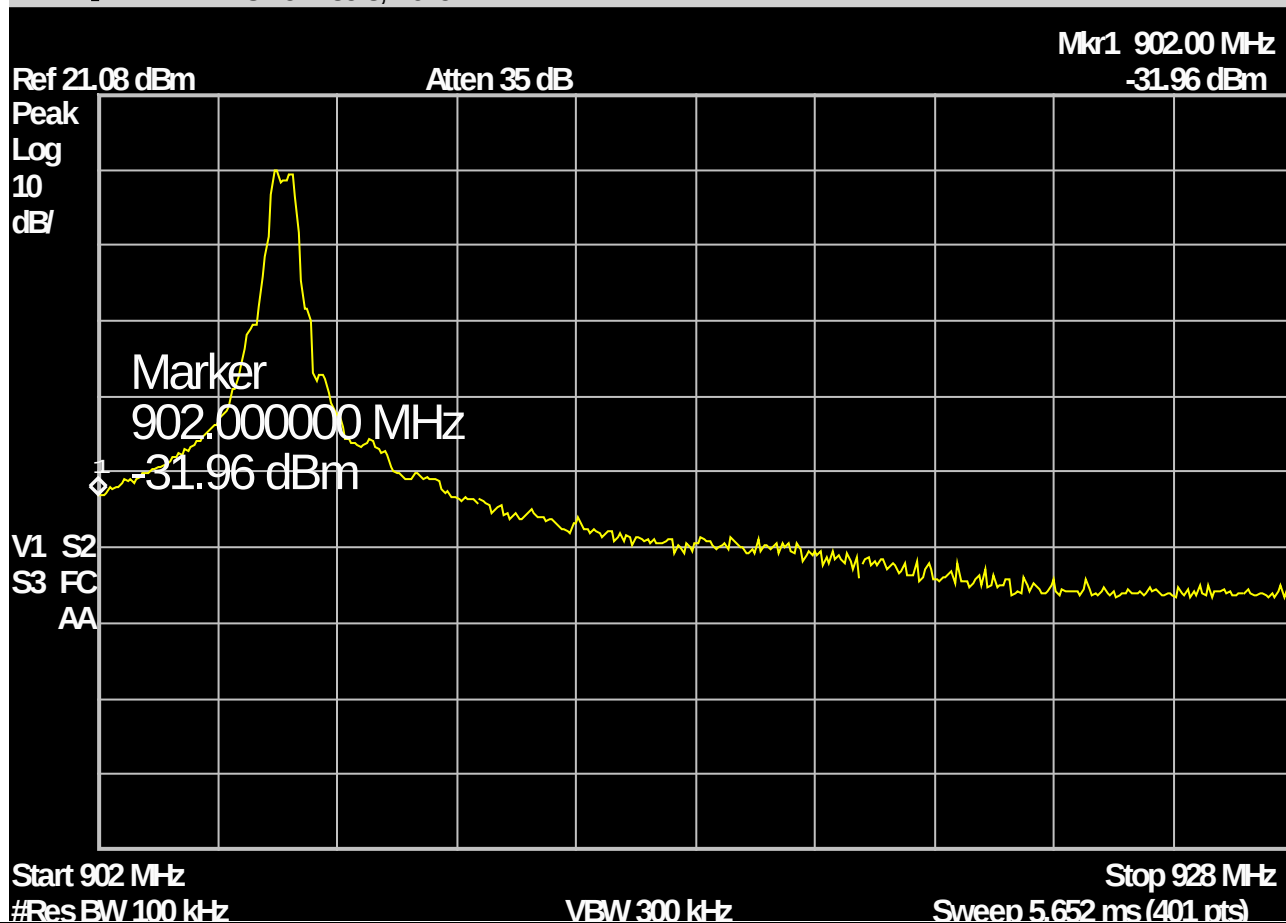
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Test Method:</b>           | Band Edge Conducted Emissions                                    |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                    |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                    |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                          |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                    |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                       |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7 |
| <b>Technician:</b>            | R. Soodoo                                                        |
| <b>Date(s):</b>               | December 5-6, 2019                                               |
| <b>Temperature:</b>           | 21.8°C                                                           |
| <b>Relative Humidity:</b>     | 30.1%                                                            |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                            |

Agilent 12:23:16 Dec 5, 2019



Lower Band Edge



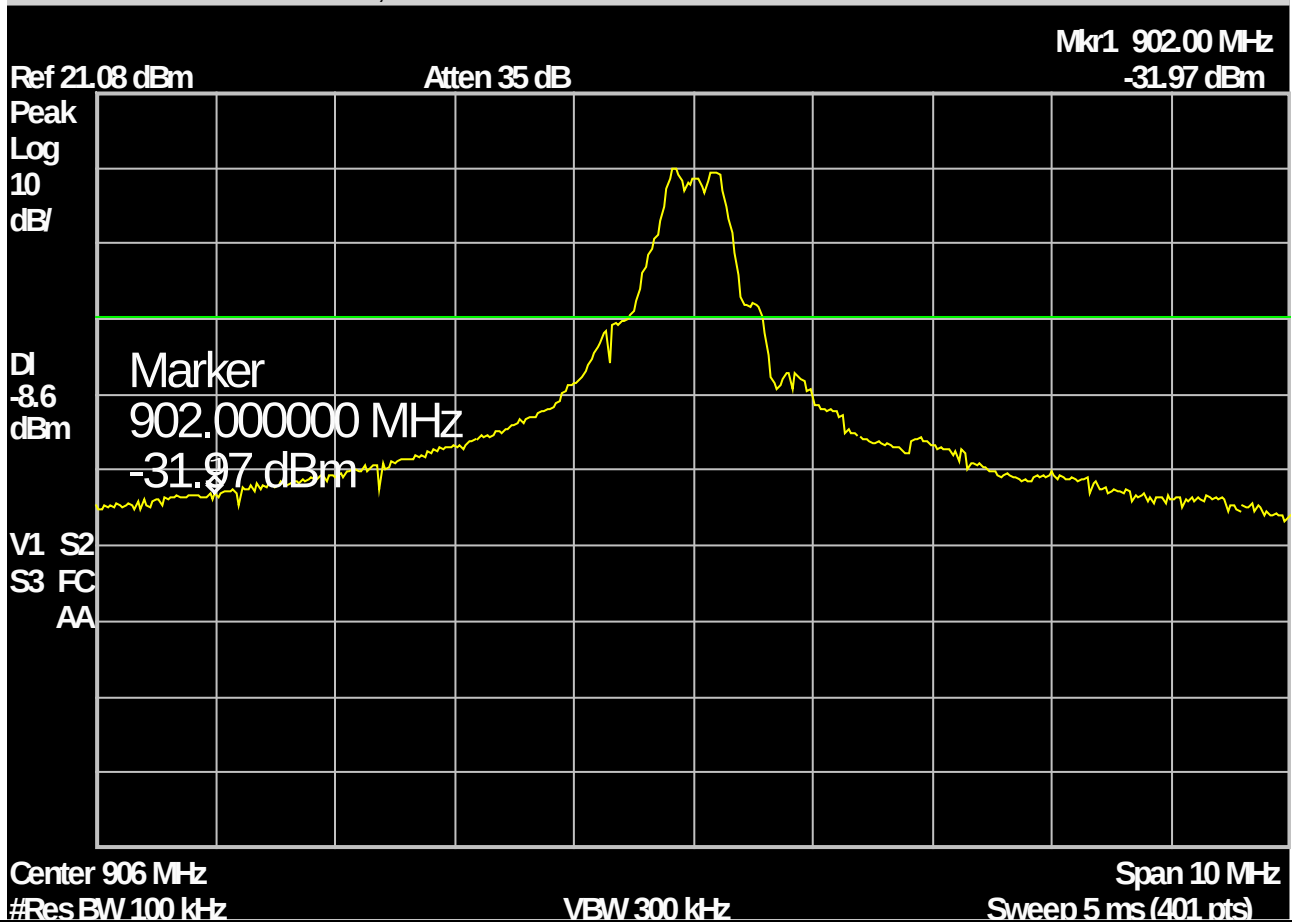
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Test Method:</b>           | Band Edge Conducted Emissions                                    |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                    |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                    |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                          |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                    |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                       |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7 |
| <b>Technician:</b>            | R. Soodoo                                                        |
| <b>Date(s):</b>               | December 5-6, 2019                                               |
| <b>Temperature:</b>           | 21.8°C                                                           |
| <b>Relative Humidity:</b>     | 30.1%                                                            |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                            |

Agilent 12:55:46 Dec 5, 2019



Lower Band Edge



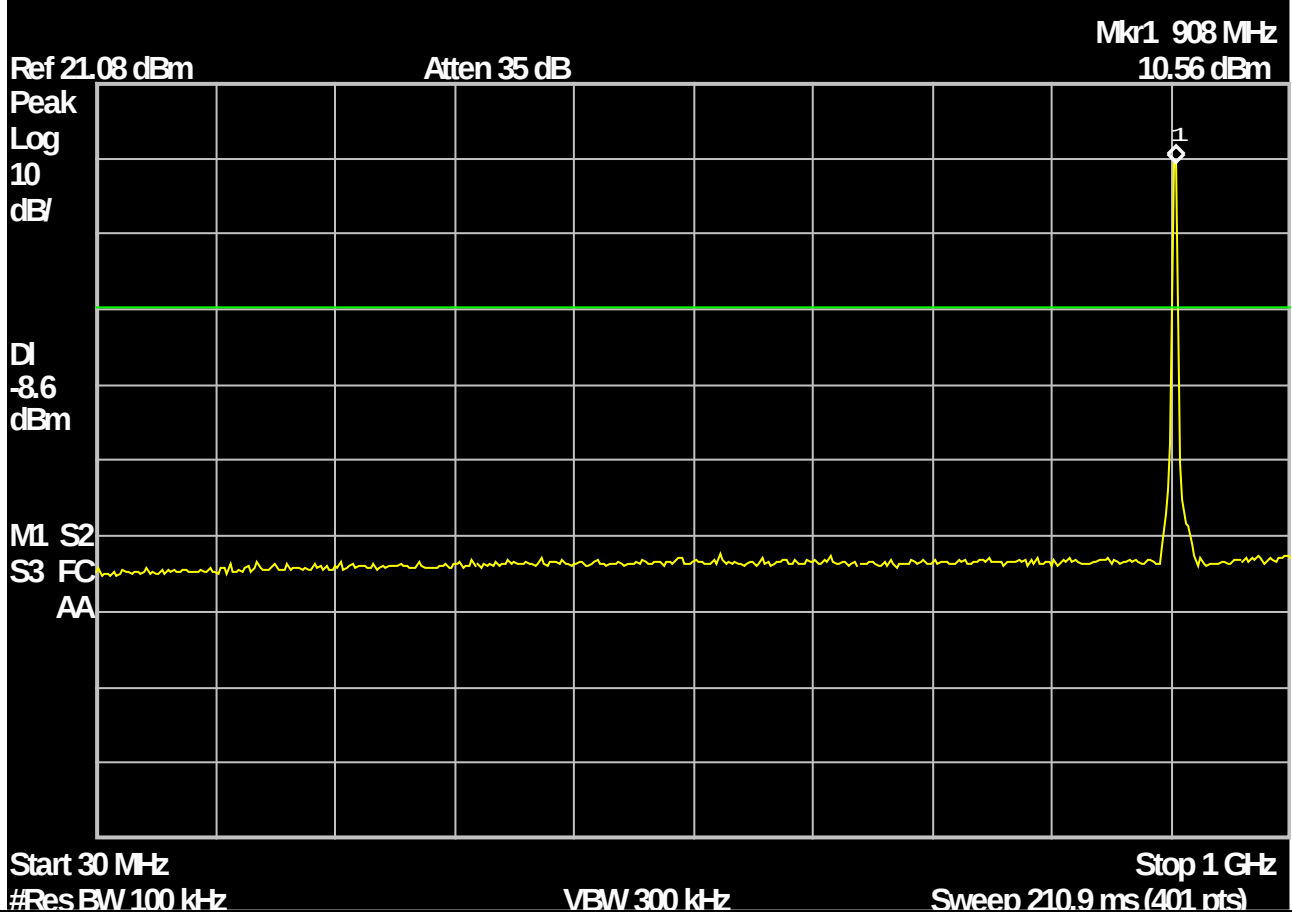
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                  |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                    |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                    |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                          |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                    |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                       |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7 |
| <b>Technician:</b>            | R. Soodoo                                                        |
| <b>Date(s):</b>               | December 5-6, 2019                                               |
| <b>Temperature:</b>           | 21.8°C                                                           |
| <b>Relative Humidity:</b>     | 30.1%                                                            |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                            |

Agilent 11:48:12 Dec 5, 2019



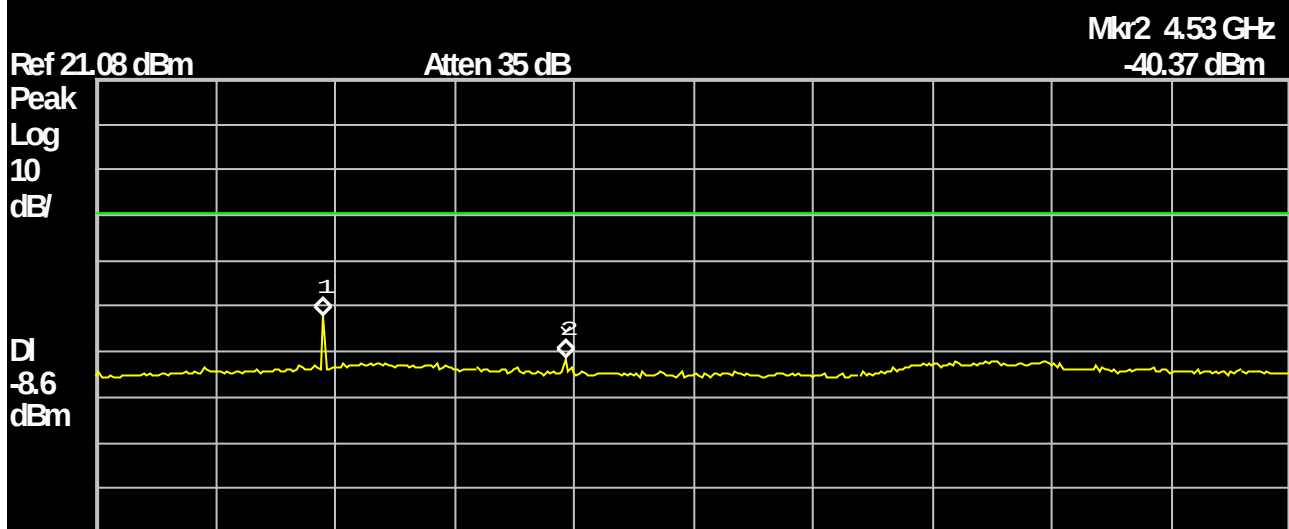
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                  |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                    |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                    |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                          |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                    |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                       |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7 |
| <b>Technician:</b>            | R. Soodoo                                                        |
| <b>Date(s):</b>               | December 5-6, 2019                                               |
| <b>Temperature:</b>           | 21.8°C                                                           |
| <b>Relative Humidity:</b>     | 30.1%                                                            |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                            |

Agilent 14:49:17 Dec 5, 2019



Start 1 GHz      Stop 10 GHz  
#Res BW 100 kHz      VBW 300 kHz      Sweep 1.957 s (401 pts)

| Marker | Trace | Type | X Axis   | Amplitude  |
|--------|-------|------|----------|------------|
| 1      | (1)   | Freq | 2.71 GHz | -30.81 dBm |
| 2      | (1)   | Freq | 4.53 GHz | -40.37 dBm |



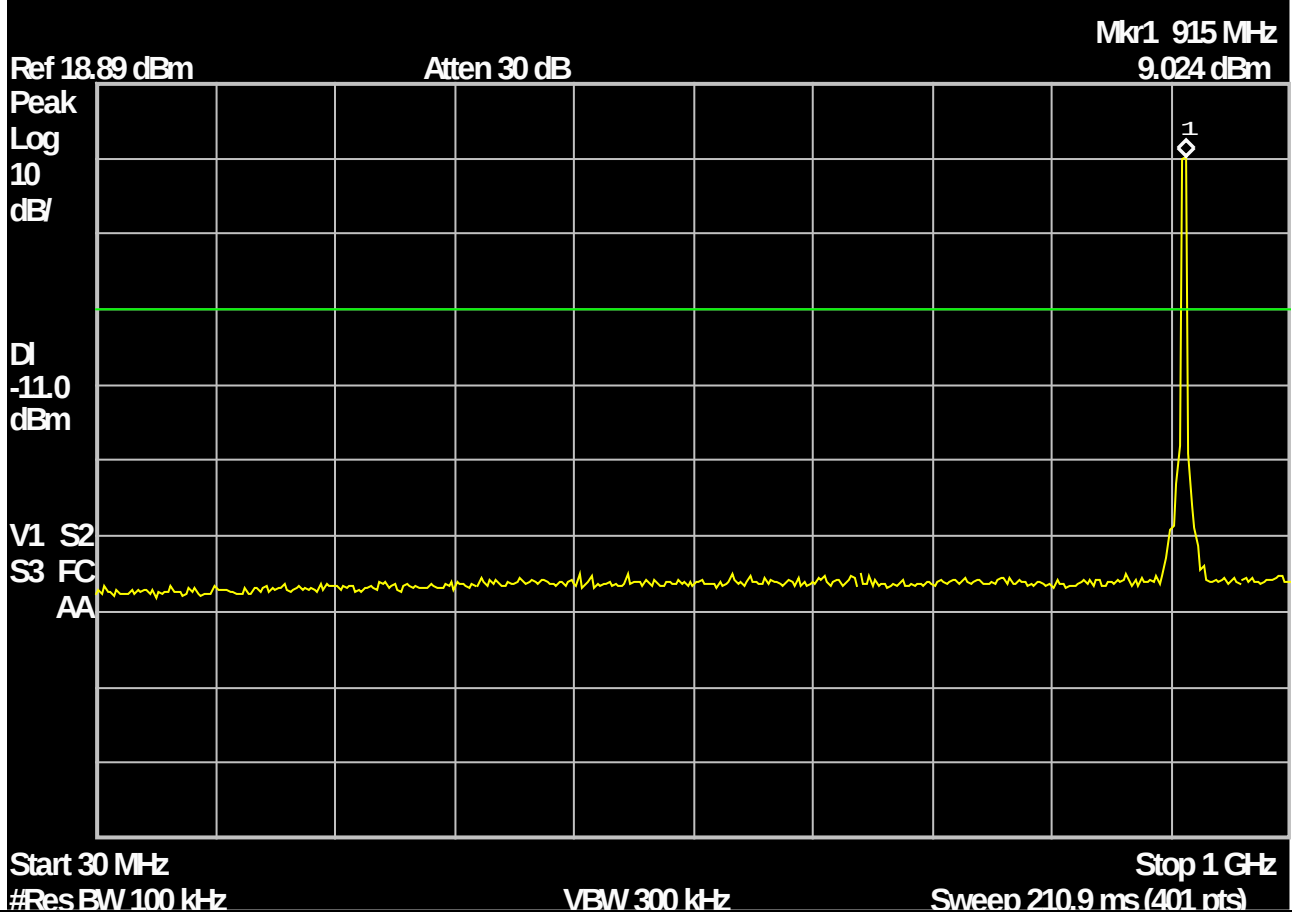
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                   |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 913.5 MHz on channel 22 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                             |

Agilent 11:57:08 Dec 6, 2019



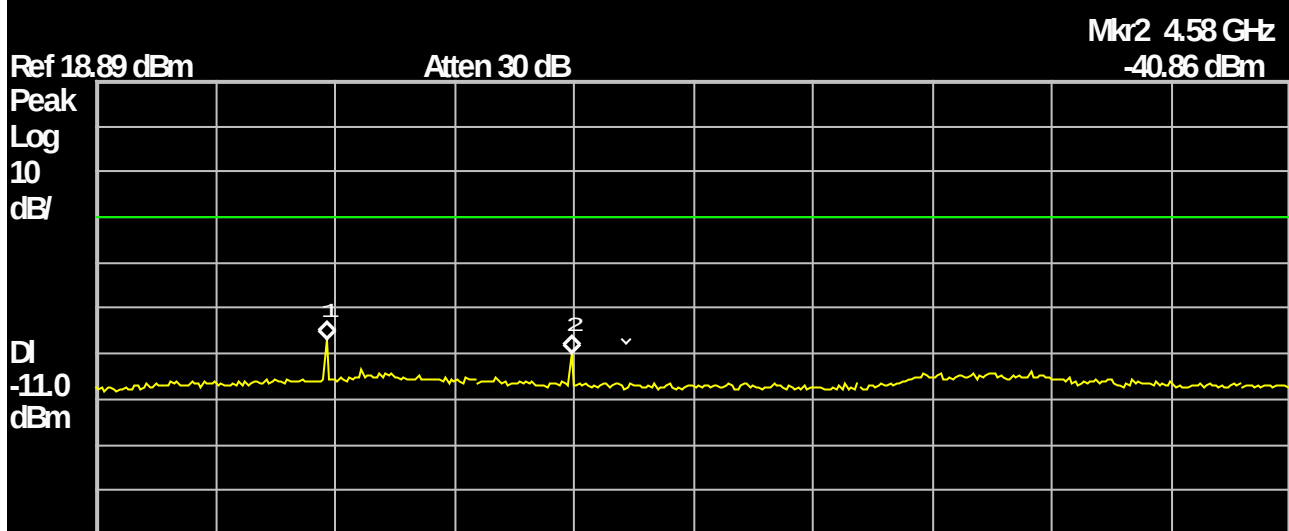
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                   |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 913.5 MHz on channel 22 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -8.6 dBm                                             |

Agilent 12:03:18 Dec 6, 2019



| Marker | Trace | Type | X Axis   | Amplitude  |
|--------|-------|------|----------|------------|
| 1      | (1)   | Freq | 2.73 GHz | -38.03 dBm |
| 2      | (1)   | Freq | 4.58 GHz | -40.86 dBm |



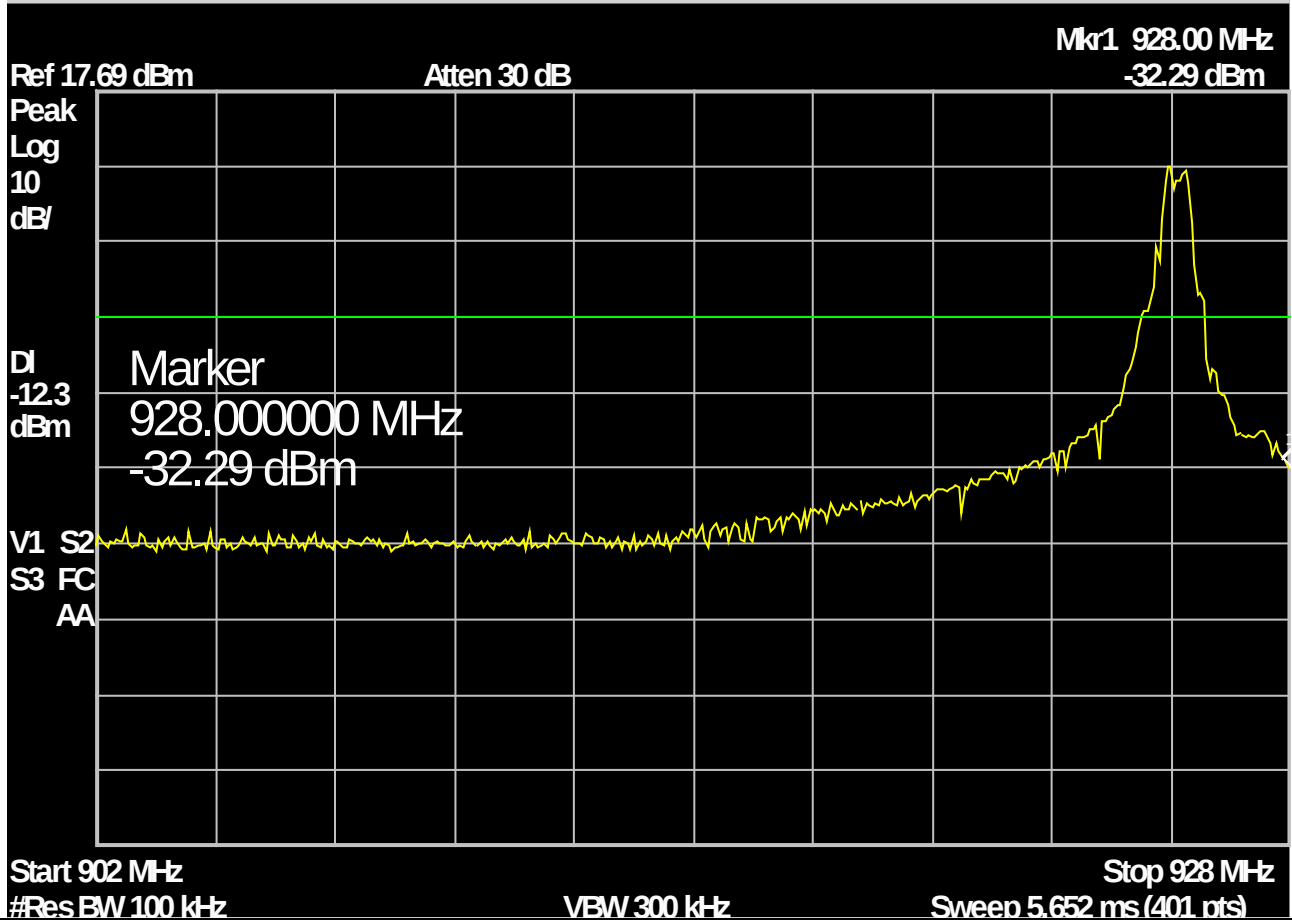
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Band Edge Conducted Emissions                                     |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 27 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -12.3 dBm                                            |

Agilent 15:05:19 Dec 5, 2019



Upper Band Edge



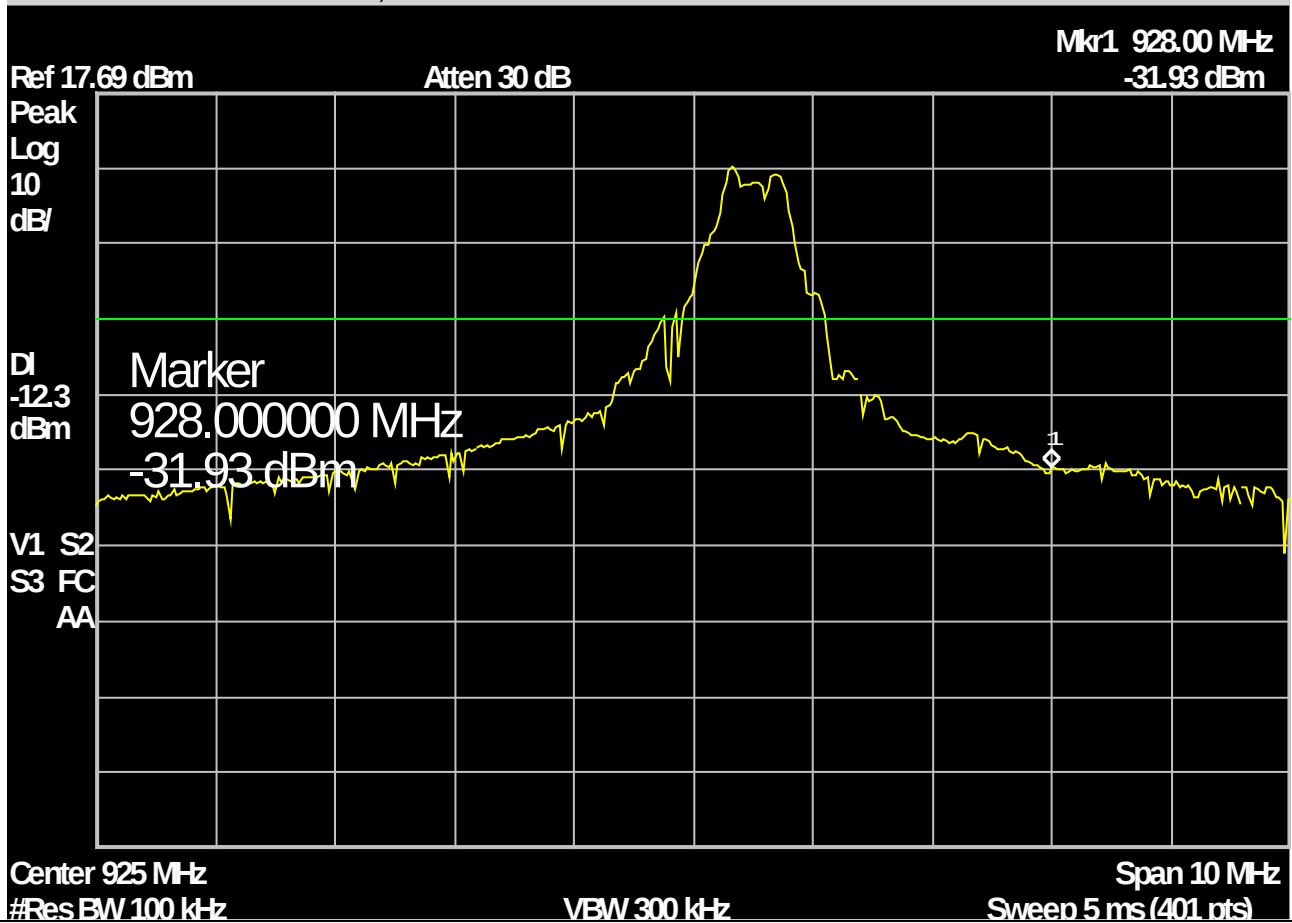
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Band Edge Conducted Emissions                                     |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 27 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -12.3 dBm                                            |

Agilent 15:22:07 Dec 5, 2019



Upper Band Edge



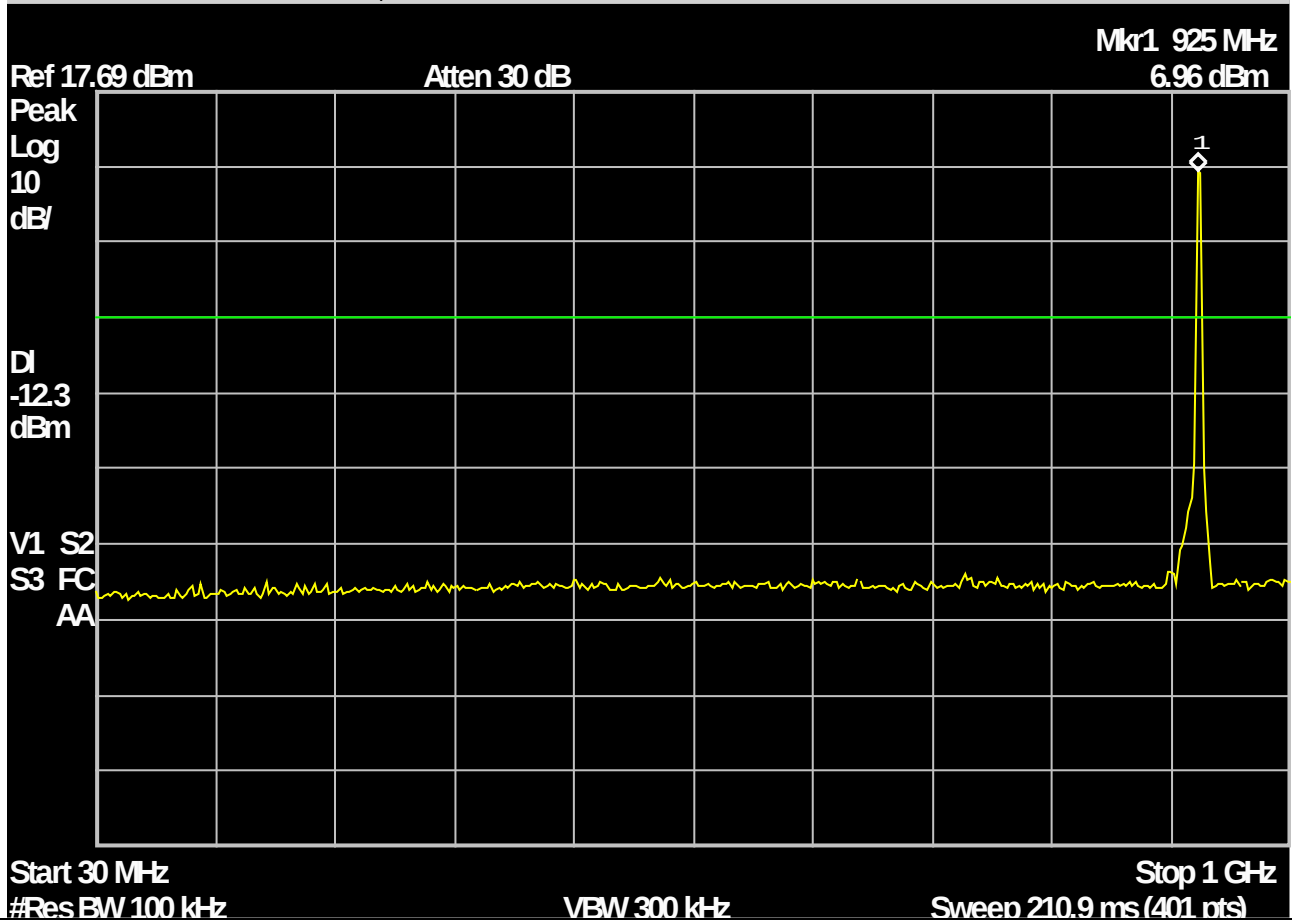
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                   |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 27 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -12.3 dBm                                            |

Agilent 15:26:47 Dec 5, 2019



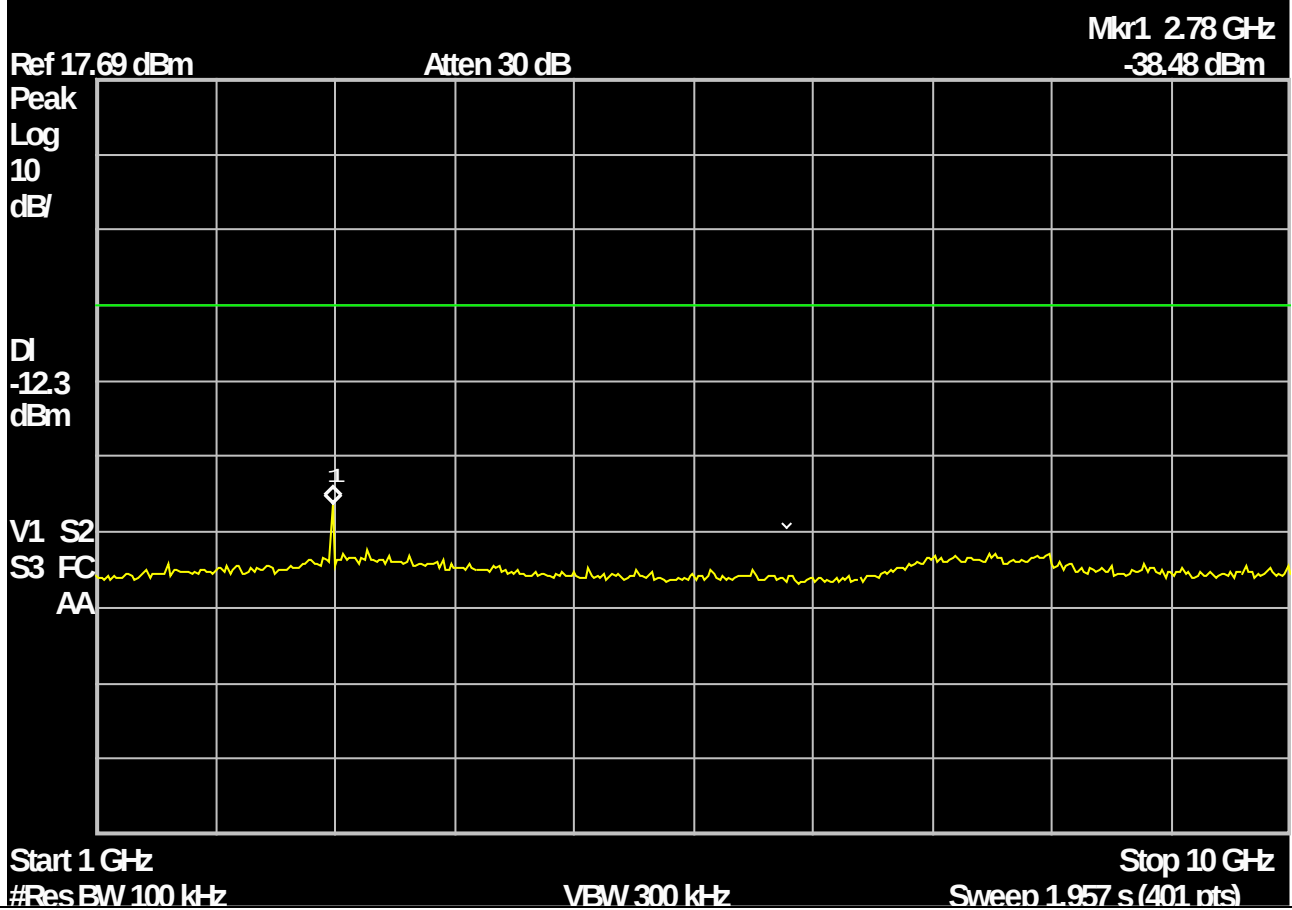
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| <b>Test Method:</b>           | Out of Band Conducted Emissions                                   |
| <b>Test Specification:</b>    | FCC Part 15, Subpart C, Paragraph: 15.247 (d)                     |
| <b>Job Number / Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                     |
| <b>Test Sample:</b>           | iSecure Go Anywhere Hub                                           |
| <b>Model Number:</b>          | GOANYWHEREHUB                                                     |
| <b>FCC ID Number:</b>         | AD8ISECHUB                                                        |
| <b>Operating Mode:</b>        | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 27 |
| <b>Technician:</b>            | R. Soodoo                                                         |
| <b>Date(s):</b>               | December 5-6, 2019                                                |
| <b>Temperature:</b>           | 21.8°C                                                            |
| <b>Relative Humidity:</b>     | 30.1%                                                             |
| <b>Notes:</b>                 | 20dBc Limit: -12.3 dBm                                            |

Agilent 15:34:06 Dec 5, 2019



**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

**FCC Part 15, Subpart C, Section 15.247(e)  
Antenna Port, Power Density  
Test Data**



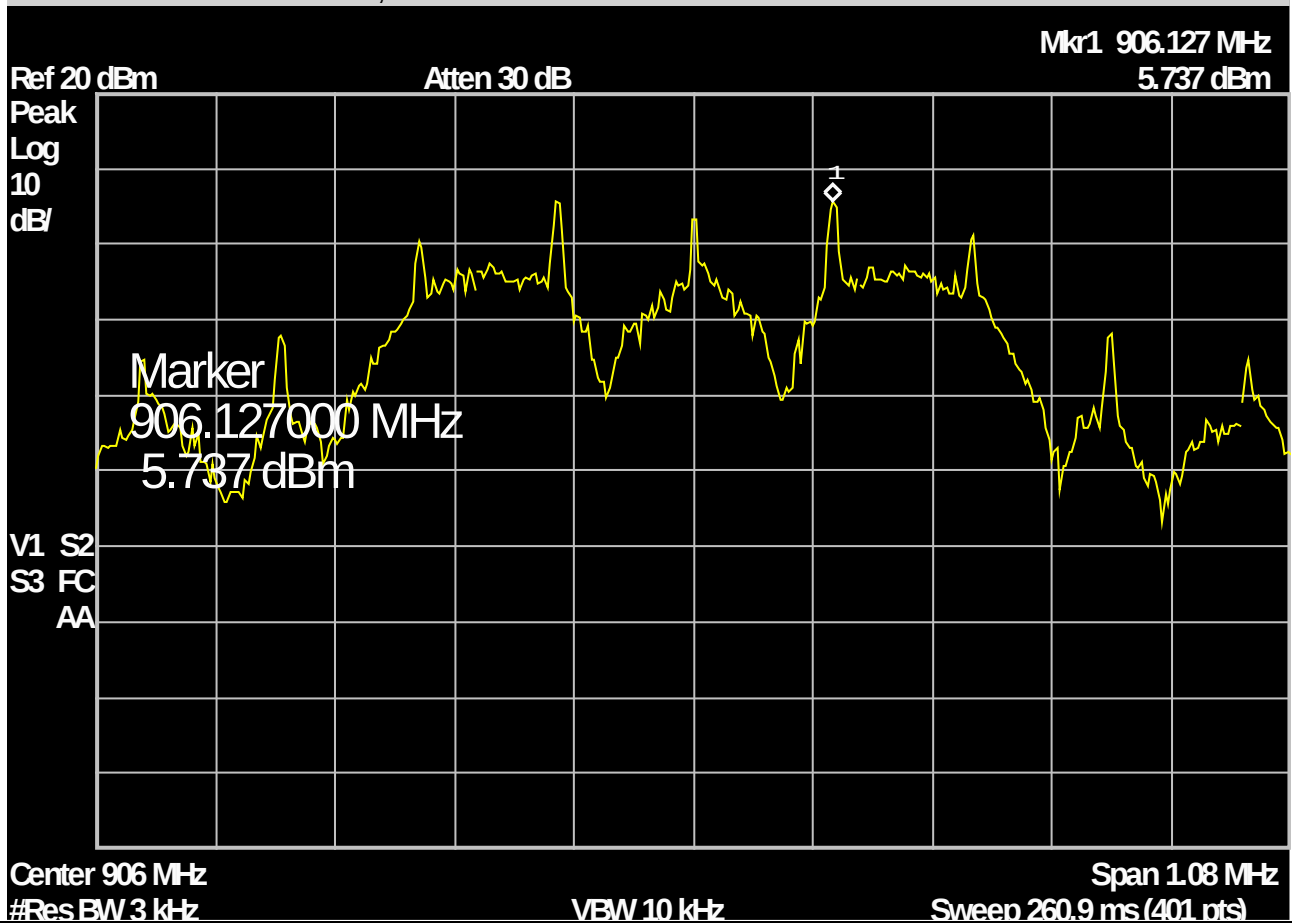
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>          | Power Density                                                                                       |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph: 15.247 (e)                                                       |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                       |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                                             |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                                                       |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                                                          |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 906.0 MHz on channel 7                                    |
| <b>Technician:</b>           | R. Soodoo                                                                                           |
| <b>Date(s):</b>              | December 4, 2019                                                                                    |
| <b>Temperature:</b>          | 20.9°C                                                                                              |
| <b>Relative Humidity:</b>    | 30.9%                                                                                               |
| <b>Notes:</b>                | ANSI C63.10, Method: 11.10.2 PKPSD<br>Power Density Limit: 8.0dBm, Measured Power Density: 5.737dBm |

Agilent 15:52:31 Dec 4, 2019



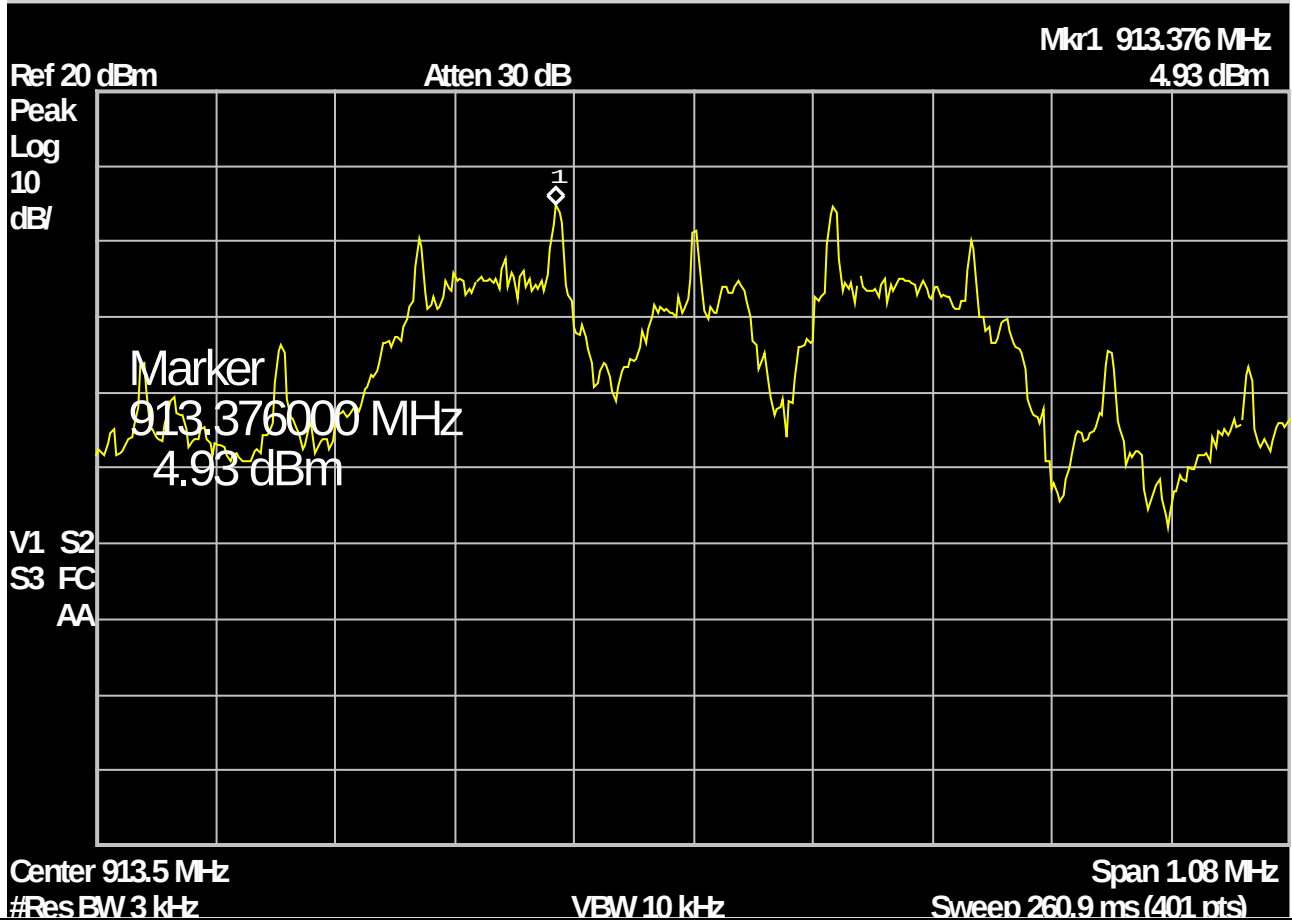
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                              |                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Method:</b>               | Power Spectral Density                                                                             |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph: 15.247 (e)                                                      |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                      |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                                            |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                                                      |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                                                         |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 913.5 MHz on channel 22                                  |
| <b>Technician:</b>           | R. Soodoo                                                                                          |
| <b>Date(s):</b>              | December 4, 2019                                                                                   |
| <b>Temperature:</b>          | 20.9°C                                                                                             |
| <b>Relative Humidity:</b>    | 30.9%                                                                                              |
| <b>Notes:</b>                | ANSI C63.10, Method: 11.10.2 PKPSD<br>Power Density Limit: 8.0dBm, Measured Power Density: 4.93dBm |

Agilent 15:43:35 Dec 4, 2019



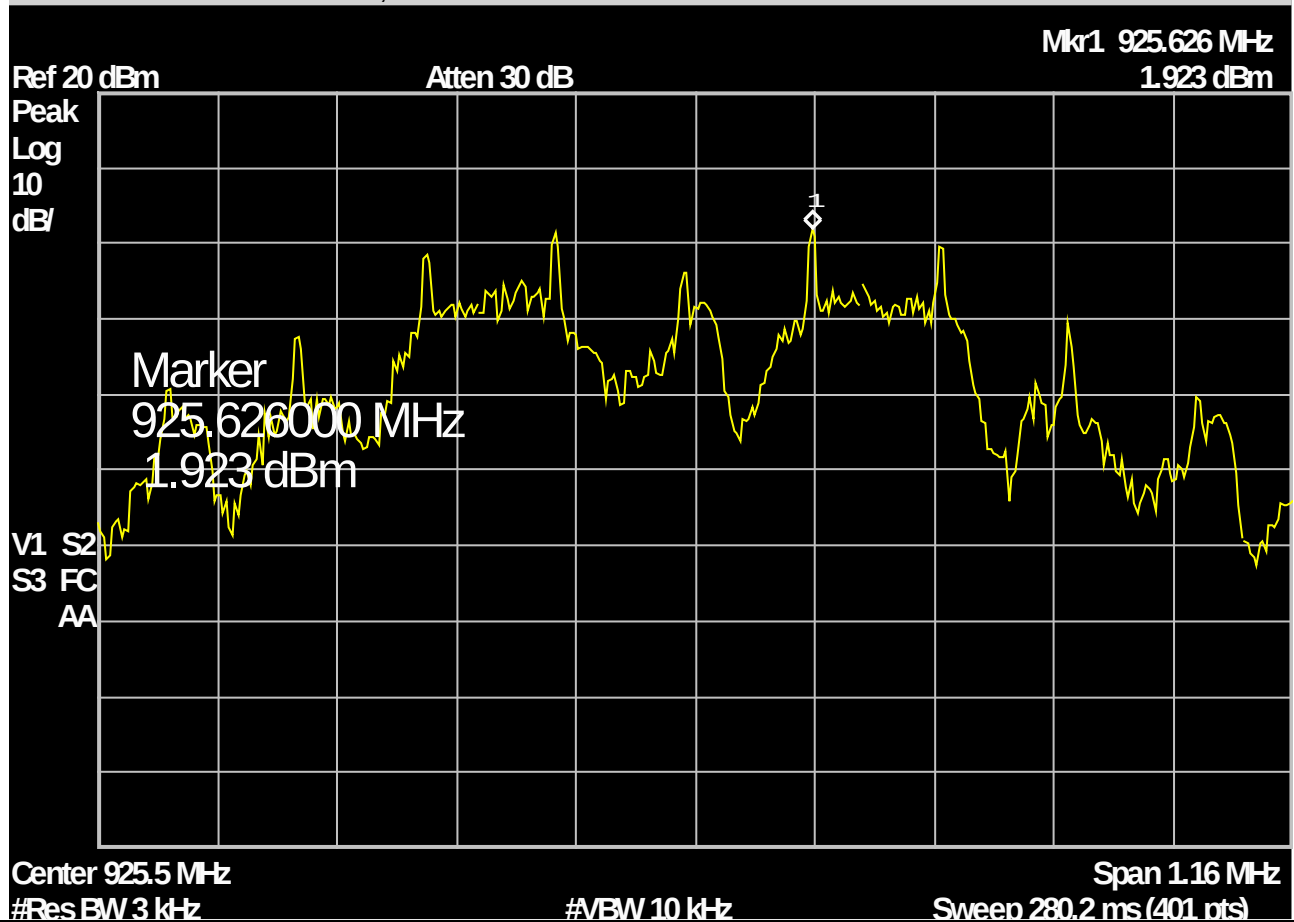
**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Test Method:</b>          | Power Spectral Density                                                                              |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph: 15.247 (e)                                                       |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.                                                       |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                                                                             |
| <b>Model Number:</b>         | GOANYWHEREHUB                                                                                       |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                                                                          |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) at 925.5 MHz on channel 28                                   |
| <b>Technician:</b>           | R. Soodoo                                                                                           |
| <b>Date(s):</b>              | December 4, 2019                                                                                    |
| <b>Temperature:</b>          | 20.9°C                                                                                              |
| <b>Relative Humidity:</b>    | 30.9%                                                                                               |
| <b>Notes:</b>                | ANSI C63.10, Method: 11.10.2 PKPSD<br>Power Density Limit: 8.0dBm, Measured Power Density: 1.923dBm |

Agilent 14:16:32 Dec 4, 2019



**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

**FCC Part 15, Subpart B, Section 15.247 (d)  
Spurious Radiated Emissions, 30 MHz to 10 GHz  
Test Data**



**Retlif Testing Laboratories**

Report No. R-17172-1, Rev. A

## EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

**Notes:**

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

\*This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

## TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit at 3m |
|-----------------|--------------------|---------------|-------------------|-------------------|-------------------|-------------|
| MHz             | MHz                | dBuV          | dB                | dBuV/m            | uV/m              | uV/m        |
| 37.50           |                    |               |                   |                   |                   | 100.00      |
|                 | 38.00*             | 31.9          | -3.1              | 28.8              | 27.5              |             |
| 38.25           |                    |               |                   |                   |                   | 100.00      |
|                 |                    |               |                   |                   |                   |             |
| 73.00           |                    |               |                   |                   |                   | 100.00      |
|                 | 74.00*             | 26.5          | -12.1             | 14.4              | 5.2               |             |
| 75.20           |                    |               |                   |                   |                   | 100.00      |
|                 |                    |               |                   |                   |                   |             |
| 108.00          |                    |               |                   |                   |                   | 150.00      |
|                 | 115.00*            | 30.7          | -5.6              | 25.1              | 18.0              |             |
| 121.94          |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 123.00          |                    |               |                   |                   |                   | 150.00      |
|                 | 130.00*            | 31.2          | -3.9              | 27.3              | 23.2              |             |
| 138.00          |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 149.90          |                    |               |                   |                   |                   | 150.00      |
|                 | 150.00*            | 25.4          | -2.2              | 23.2              | 14.5              |             |
| 150.05          |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 156.52475       |                    |               |                   |                   |                   | 150.00      |
|                 | 156.52500*         | 24.3          | -2.2              | 22.1              | 12.7              |             |
| 156.52525       |                    |               |                   |                   |                   | 150.00      |



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## EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

**Notes:**

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

\*This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

### TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit at 3m |
|-----------------|--------------------|---------------|-------------------|-------------------|-------------------|-------------|
| MHz             | MHz                | dBuV          | dB                | dBuV/m            | uV/m              | uV/m        |
| 156.70          |                    |               |                   |                   |                   | 150.00      |
|                 | 156.80*            | 25.3          | -2.2              | 23.1              | 14.3              |             |
| 156.90          |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 162.0125        |                    |               |                   |                   |                   | 150.00      |
|                 | 165.00*            | 29.1          | -1.6              | 27.5              | 23.7              |             |
| 167.1700        |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 167.72          |                    |               |                   |                   |                   | 150.00      |
|                 | 170.00*            | 28.2          | -1.4              | 26.8              | 21.9              |             |
| 173.20          |                    |               |                   |                   |                   | 150.00      |
|                 |                    |               |                   |                   |                   |             |
| 240.00          |                    |               |                   |                   |                   | 200.00      |
|                 | 260.00*            | 24.6          | -4.8              | 19.8              | 9.8               |             |
| 285.00          |                    |               |                   |                   |                   | 200.00      |
|                 |                    |               |                   |                   |                   |             |
| 322.00          |                    |               |                   |                   |                   | 200.00      |
|                 | 330.00*            | 24.4          | -2.2              | 22.2              | 12.9              |             |
| 335.40          |                    |               |                   |                   |                   | 200.00      |
|                 |                    |               |                   |                   |                   |             |
| 399.90          | -                  | -             | -                 | -                 |                   | 200.00      |
|                 | 405.00*            | 20.9          | -0.8              | 20.1              | 10.1              |             |
| 410.00          |                    |               |                   |                   |                   | 200.00      |



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## EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

**Notes:**  
 No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.  
 \*This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

### TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit at 3m |
|-----------------|--------------------|---------------|-------------------|-------------------|-------------------|-------------|
| MHz             | MHz                | dBuV          | dB                | dBuV/m            | uV/m              | uV/m        |
| 608.00          |                    |               |                   |                   |                   | 200.00      |
|                 | 611.00*            | 25.1          | 4.3               | 29.4              | 29.5              |             |
| 614.00          | -                  |               |                   |                   |                   | 200.00      |
|                 |                    |               |                   |                   |                   |             |
| 960.00          |                    |               |                   |                   |                   | 500.00      |
|                 | 975.00*            | 20.5          | 11.7              | 32.2              | 40.7              |             |
| 1240.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 1300.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 1350.00*           | 33.5          | 1.4               | 34.9              | 55.6              |             |
| 1427.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 1435.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 1500.00*           | 34.8          | 1.7               | 36.5              | 66.8              |             |
| 1646.50         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 1660.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 1680.00*           | 31.2          | 1.7               | 32.9              | 44.2              |             |
| 1710.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 1718.80         |                    |               |                   |                   |                   | 500.00      |
|                 | 1720.00*           | 33.8          | 2.1               | 35.9              | 62.4              |             |
| 1722.20         |                    |               |                   |                   |                   | 500.00      |



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## EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

**Notes:**

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

\*This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

### TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit at 3m |
|-----------------|--------------------|---------------|-------------------|-------------------|-------------------|-------------|
| MHz             | MHz                | dBuV          | dB                | dBuV/m            | uV/m              | uV/m        |
| 2200.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 2250.00            | 47.1          | 4.8               | 51.9              | 393.6             |             |
| 2300.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 2310.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 2360.00            | 37.1          | 5.2               | 42.3              | 130.3             |             |
| 2390.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 2483.50         |                    |               |                   |                   |                   | 500.00      |
|                 | 2490.00*           | 34.1          | 5.5               | 39.6              | 95.5              |             |
| 2500.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 2690.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 2750.00*           | 35.6          | 5.9               | 41.5              | 118.9             |             |
| 2900.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 3260.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 3263.00*           | 26.4          | 6.6               | 33.0              | 44.7              |             |
| 3267.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 3332.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 3336.00*           | 29.8          | 6.8               | 36.6              | 67.6              |             |
| 3339.00         |                    |               |                   |                   |                   | 500.00      |



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## EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

**Notes:**

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

\*This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

### TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | Converted Reading | Limit at 3m |
|-----------------|--------------------|---------------|-------------------|-------------------|-------------------|-------------|
| MHz             | MHz                | dBuV          | dB                | dBuV/m            | uV/m              | uV/m        |
| 3345.80         |                    |               |                   |                   |                   | 500.00      |
|                 | 3350.00*           | 28.4          | 6.9               | 35.3              | 58.2              |             |
| 3358.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 3600.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 4000.00*           | 24.7          | 7.0               | 31.7              | 38.5              |             |
| 4400.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 4500.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 4825.00*           | 27.5          | 10.8              | 38.3              | 82.2              |             |
| 5150.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 5350.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 5413.80*           | 24.9          | 10.3              | 35.2              | 57.5              |             |
| 5460.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 7250.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 7268.00*           | 27.1          | 12.7              | 39.8              | 97.7              |             |
| 7750.00         |                    |               |                   |                   |                   | 500.00      |
|                 |                    |               |                   |                   |                   |             |
| 8025.00         |                    |               |                   |                   |                   | 500.00      |
|                 | 8234.10*           | 28.6          | 12.7              | 41.3              | 116.1             |             |
| 8500.00         |                    |               |                   |                   |                   | 500.00      |



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# EMISSIONS TEST DATA SHEET

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>Method:</b>              | Restricted Band Emissions 30 MHz to 10 GHz    |
| <b>Test Specification:</b>  | FCC Part 15, Subpart C, Paragraph: 15.247 (d) |
| <b>Job Number/Customer:</b> | R-17172-1 / Napco Security Technologies, Inc. |
| <b>Test Sample:</b>         | iSecure Go Anywhere Hub                       |
| <b>Model Number:</b>        | GOANYWHEREHUB                                 |
| <b>FCC ID Number:</b>       | AD8ISECHUB                                    |
| <b>Operating Mode:</b>      | Transmitting modulated signal (2-GFSK)        |
| <b>Technician:</b>          | M. Griffiths                                  |
| <b>Date(s):</b>             | December 13, 2019                             |
| <b>Temperature:</b>         | 10.6°C                                        |
| <b>Relative Humidity:</b>   | 54.2%                                         |
| <b>Detector:</b>            | Quasi-Peak <1GHz, Average >1GHz               |
| <b>Test Distance:</b>       | 3m                                            |

### Notes:

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum.

This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor)

## TEST PARAMETERS

[illegible]

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**FCC Part 15, Subpart B, Section 15.207(a)  
Conducted Emissions, Power Leads, 150 kHz to 30 MHz  
Test Data**



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## EMISSIONS TEST DATA SHEET

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| <b>Method:</b>               | Conducted Emissions, Power Leads, 150 kHz to 30 MHz   |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph: 15.207(a)          |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.         |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                               |
| <b>Model Number:</b>         | GOANYWHEREHUB                                         |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                            |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) on all channel |
| <b>Technician:</b>           | R. Soodoo                                             |
| <b>Date(s):</b>              | December 11, 2019                                     |
| <b>Temperature:</b>          | 20.4°C                                                |
| <b>Relative Humidity:</b>    | 38.0%                                                 |
| <b>Lead Tested:</b>          | 120 VAC, 60 Hz, Hot                                   |

The frequency range was scanned from 0.15 MHz to 30 MHz.

The six highest emissions relative to the limit are presented.

The emissions observed from the EUT do not exceed the specified limits.

| Frequency<br>MHz | Detector<br>– | Meter Reading<br>dBµV | Total Correction<br>Factor<br>dB | Corrected<br>Reading<br>dBµV | Average<br>Limit<br>dBµV | Margin<br>dB |
|------------------|---------------|-----------------------|----------------------------------|------------------------------|--------------------------|--------------|
| 0.1500           | Peak          | 16.8                  | 10.1                             | 26.9                         | 56.0                     | 29.1         |
| 2.7600           | Peak          | 15.0                  | 10.1                             | 25.2                         | 46.0                     | 20.8         |
| 6.6400           | Peak          | 14.0                  | 10.1                             | 24.2                         | 50.0                     | 25.8         |
| 15.6000          | Peak          | 15.0                  | 10.1                             | 25.1                         | 50.0                     | 24.9         |
| 22.0900          | Peak          | 12.0                  | 10.1                             | 22.1                         | 50.0                     | 27.9         |
| 28.5800          | Peak          | 14.5                  | 10.1                             | 24.6                         | 50.0                     | 25.4         |



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## EMISSIONS TEST DATA SHEET

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| <b>Method:</b>               | Conducted Emissions, Power Leads, 150 kHz to 30 MHz   |
| <b>Test Specification:</b>   | FCC Part 15, Subpart C, Paragraph: 15.207(a)          |
| <b>Job Number/ Customer:</b> | R-17172-1 / Napco Security Technologies, Inc.         |
| <b>Test Sample:</b>          | iSecure Go Anywhere Hub                               |
| <b>Model Number:</b>         | GOANYWHEREHUB                                         |
| <b>FCC ID Number:</b>        | AD8ISECHUB                                            |
| <b>Operating Mode:</b>       | Transmitting modulated signal (2-GFSK) on all channel |
| <b>Technician:</b>           | R. Soodoo                                             |
| <b>Date(s):</b>              | December 11, 2019                                     |
| <b>Temperature:</b>          | 20.4°C                                                |
| <b>Relative Humidity:</b>    | 38.0%                                                 |
| <b>Lead Tested:</b>          | 120 VAC, 60 Hz, Neutral                               |

The frequency range was scanned from 0.15 MHz to 30 MHz.

The six highest emissions relative to the limit are presented.

The emissions observed from the EUT do not exceed the specified limits.

| Frequency | Detector | Meter Reading | Total Correction Factor | Corrected Reading | Limit | Margin |
|-----------|----------|---------------|-------------------------|-------------------|-------|--------|
| MHz       | -        | dBμV          | dB                      | dBμV              | dBμV  | dB     |
| 0.1500    | Peak     | 17.4          | 10.1                    | 27.6              | 56.0  | 28.4   |
| 4.9300    | Peak     | 15.6          | 10.1                    | 25.8              | 46.0  | 20.2   |
| 9.7000    | Peak     | 14.8          | 10.1                    | 25.0              | 50.0  | 25.0   |
| 19.8500   | Peak     | 14.7          | 10.1                    | 24.8              | 50.0  | 25.0   |
| 24.1000   | Peak     | 14.9          | 10.1                    | 25.0              | 50.0  | 25.0   |
| 28.8800   | Peak     | 14.2          | 10.1                    | 24.3              | 50.0  | 25.7   |



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