



Phillips & Temro Industries, Inc.

Evocharge Pro

FCC 15.225:2025

RSS-210 Issue 11:2024

RSS-Gen Issue 5:2018+A1:2019+A2:2021

13.56 MHz Radio

Report: PLIP0013.0 Rev. 1, Issue Date: February 5, 2025



This report must not be used to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

TABLE OF CONTENTS

| Section | Page Number |
|---|-------------|
| Certificate of Test | 3 |
| Revision History | 4 |
| Accreditations..... | 5 |
| Facilities | 6 |
| Measurement Uncertainty | 7 |
| Test Setup Block Diagrams..... | 8 |
| Product Description..... | 11 |
| Power Settings and Antennas | 12 |
| Configurations..... | 13 |
| Modifications | 14 |
| Powerline Conducted Emissions..... | 15 |
| Emissions Bandwidth (20 dB) | 24 |
| Field Strength of Fundamental..... | 27 |
| Field Strength of Spurious Emissions (Less Than 30 MHz) | 30 |
| Field Strength of Spurious Emissions (Greater Than 30 MHz)..... | 34 |
| Frequency Stability..... | 40 |
| Occupied Bandwidth (99%)..... | 45 |
| End of Report..... | 48 |

CERTIFICATE OF TEST

Last Date of Test: December 11, 2024
 Phillips & Temro Industries, Inc.
 EUT: Evocharge Pro

Radio Equipment Testing

Standards

| Specification | Method |
|--------------------------------------|------------------|
| FCC 15.225:2025 | ANSI C63.10:2013 |
| FCC 15.207:2025 | |
| RSS-210 Issue 11:2024 | |
| RSS-Gen Issue 5:2018+A1:2019+A2:2021 | |

Note: FCC 15.247 and FCC 15.207 have been updated superseding prior issues. The changes between the specifications do not affect the results of the prior testing. The manufacturer attests that no changes have been made to the product.

Guidance

| |
|-----------------------|
| KDB 174176 |
| Notice 2020 - DRS0023 |

Results

| Test Description | Result | FCC Section(s) | RSS Section(s) | ANSI C63.10 Section(s) | Comments |
|--|--------|--|----------------------|------------------------|----------|
| Powerline Conducted Emissions | Pass | 15.207 | RSS-Gen 8.8 | 6.2 | |
| Emissions Bandwidth (20 dB) | Pass | 15.215(c) | N/A | 6.9.2 | |
| Field Strength of Fundamental | Pass | 15.225(a)-(c) | RSS-210 B.6(a)(i-iv) | 6.4 | |
| Field Strength of Spurious Emissions (Less Than 30 MHz) | Pass | 15.225(d), 15.209 | RSS-210 B.6(a)(iv) | 6.4 | |
| Field Strength of Spurious Emissions (Greater Than 30 MHz) | Pass | 15.225(d), 15.209 | RSS-210 B.6(a)(iv) | 6.5 | |
| Frequency Stability | Pass | 15.225(e), 15.31(e), 15.215(c), 2.1055 | RSS-210 B.6(b) | 6.8 | |
| Occupied Bandwidth (99%) | Pass | N/A | RSS-Gen 6.7 | 6.9.3 | |

Deviations From Test Standards

None

Approved By:



Cole Ghizzone, Operations Manager
 Signed for and on behalf of Element

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY

| Revision Number | Description | Date (yyyy-mm-dd) | Page Number |
|-----------------|---|----------------------|-------------|
| 01 | Updated FCC 15.225 specification year | 2025-02-04 | 1 |
| | Updated FCC 15.225 specification year added FCC 15.207:2025 and added gap analysis note of equivalency. | | 3 |
| | Removed duplicate tabular data table. | | 29 |
| | Added voltage values for extreme test conditions | | 41 |
| | Updated data and test equipment. Updated modification log to reflect change in test date. | | 13, 45 - 48 |

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission – Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS – Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC – Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

SCOPE

For details on the Scopes of our Accreditations, please visit:

[California](#)

[Minnesota](#)

[Oregon](#)

[Texas](#)

[Washington](#)

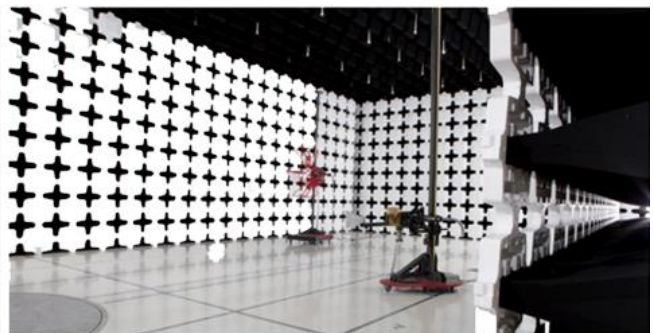
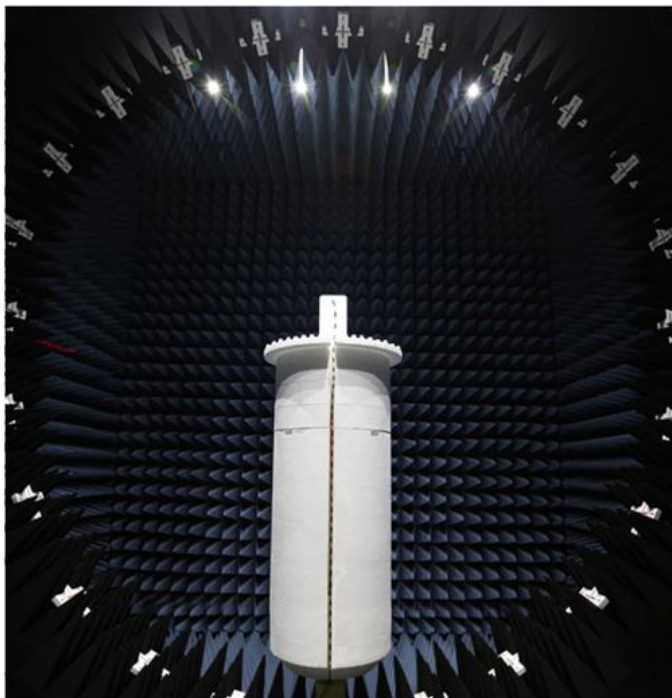
FACILITIES

Testing was performed at the following location(s)

| | Location | Labs ⁽¹⁾ | Address | A2LA ⁽²⁾ | ISED ⁽³⁾ | BSMI ⁽⁴⁾ | VCCI ⁽⁵⁾ | CAB ⁽⁶⁾ | FDA ⁽⁷⁾ |
|-------------------------------------|-------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| <input type="checkbox"/> | California | OC01-17 | 41 Tesla Irvine, CA 92618 (949) 861-8918 | 3310.04 | 2834B | SL2-IN-E-1154R | A-0029 | US0158 | TL-55 |
| <input type="checkbox"/> | Minnesota | MN01-11 | 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136 | 3310.05 | 2834E | SL2-IN-E-1152R | A-0109 | US0175 | TL-57 |
| <input checked="" type="checkbox"/> | Oregon | EV01-12 | 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066 | 3310.02 | 2834D | SL2-IN-E-1017 | A-0108 | US0017 | TL-56 |
| <input type="checkbox"/> | Plano Texas | PT01-15 | 1701 E Plano Pkwy, Ste 150 Plano, TX 75074 (972) 509-2566 | 214.19 | 32637 | SL2-IN-E-057R | A-0426 | US0054 | TL-137 |
| <input type="checkbox"/> | Washington | NC01-05 | 19201 120th Ave NE Bothell, WA 98011 (425) 984-6600 | 3310.06 | 2834F | SL2-IN-E-1153R | A-0110 | US0157 | TL-67 |
| <input type="checkbox"/> | Offsite | N/A | See Product Description | N/A | N/A | N/A | N/A | N/A | N/A |

See data sheets for specific labs

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) CAB Identifier. Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MOC, NCC, OFCA
- (7) FDA ASCA No.



MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation reported is based on statistical analysis that was performed by the laboratory. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty ($k=2$) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable) and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Various Measurements

| Test | All Labs (+/-) |
|--------------------------------------|-------------------|
| Frequency Accuracy (%) | 0.0007 |
| Amplitude Accuracy (dB) | 1.2 |
| Conducted Power (dB) | 1.2 |
| Radiated Power via Substitution (dB) | 0.7 |
| Temperature (degrees C) | 0.7 |
| Humidity (% RH) | 2.5 |
| Voltage (AC) (%) | 1 |
| Voltage (DC) (%) | 0.7 |

Field Strength Measurements (dB)

| Range | EV11 (+/-) |
|----------------|---------------|
| 10kHz-30MHz | 1.7 |
| 30MHz-1GHz 3m | 4.8 |
| 30MHz-1GHz 10m | 3.8 |
| 1GHz-6GHz | 5.1 |
| 6GHz-40GHz | 5.2 |

AC Powerline Conducted Emissions Measurements (dB)

| Range | EV07 (+/-) |
|--------------------------|---------------|
| 9kHz-150kHz LISN | 3.6 |
| 150kHz-30MHz LISN | 3.2 |
| 150kHz-30MHz CVP | 3.2 |
| 150kHz-30MHz Telecom-ISN | 4.4 |

TEST SETUP BLOCK DIAGRAMS

Measurement Bandwidths

| Frequency Range (MHz) | Peak Data (kHz) | Quasi-Peak Data (kHz) | Average Data (kHz) |
|-----------------------|-----------------|-----------------------|--------------------|
| 0.01 - 0.15 | 1.0 | 0.2 | 0.2 |
| 0.15 - 30.0 | 10.0 | 9.0 | 9.0 |
| 30.0 - 1000 | 100.0 | 120.0 | 120.0 |
| Above 1000 | 1000.0 | N/A | 1000.0 |

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | | Measured Level | | Reference Level Offset |
| 71.2 | = | 42.6 | + | 28.6 |

Near Field Test Fixture Measurements



Sample Calculation (logarithmic units)

| | | | | |
|----------------|---|----------------|---|------------------------|
| Measured Value | | Measured Level | | Reference Level Offset |
| 71.2 | = | 42.6 | + | 28.6 |

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

| Measured Level (Amplitude) | Factor | | | Distance Adjustment Factor | External Attenuation | Field Strength |
|-------------------------------|----------------|--------------|----------------|----------------------------|----------------------|----------------|
| | Antenna Factor | Cable Factor | Amplifier Gain | | | |
| 42.6 | 28.6 | 3.1 | 40.8 | 0.0 | 0.0 | 33.5 |

Conducted Emissions:

| Measured Level (Amplitude) | Factor | | External Attenuation | Adjusted Level |
|-------------------------------|-------------------|--------------|----------------------|----------------|
| | Transducer Factor | Cable Factor | | |
| 26.7 | 0.3 | 0.1 | 20.0 | 47.1 |

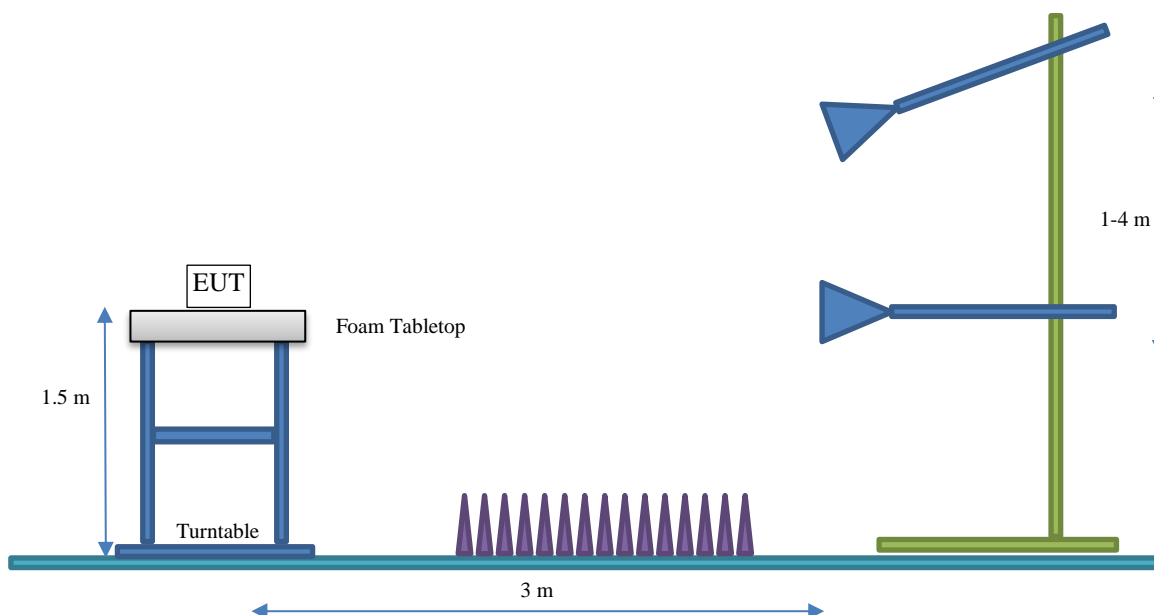
Radiated Power (ERP/EIRP) – Substitution Method:

| Measured Level into Substitution Antenna (Amplitude dBm) | Substitution Antenna Factor (dBi) | EIRP to ERP (if applicable) | Measured power (dBm ERP/EIRP) |
|---|--------------------------------------|--------------------------------|----------------------------------|
| 10.0 | 6.0 | 2.15 | 13.9/16.0 |

TEST SETUP BLOCK DIAGRAMS

Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION

Client and Equipment under Test (EUT) Information

| | |
|---------------------------------|-----------------------------------|
| Company Name: | Phillips & Temro Industries, Inc. |
| Address: | 9700 W 74th Street |
| City, State, Zip: | Eden Prairie, MN 55344 |
| Test Requested By: | Jeff Martell |
| EUT: | Evocharge Pro |
| First Date of Test: | December 3, 2024 |
| Last Date of Test: | December 11, 2024 |
| Receipt Date of Samples: | December 3, 2024 |
| Equipment Design Stage: | Production |
| Equipment Condition: | No Damage |
| Purchase Authorization: | Verified |

Information Provided by the Party Requesting the Test

| |
|--|
| Functional Description of the EUT: |
| Electric vehicle charger with Wi-Fi/BT radio, cellular radio and 13.56 MHz NFC radio. Contains FCC ID 2BEYO-HEVSE50 (Wi-Fi/BT) |
| Testing Objective: |
| To demonstrate compliance of the 13.56 MHz radio to FCC 15.225 requirements. and RSS-210 Annex B.6 specifications. |

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information. The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

ANTENNA GAIN (dBi)

| Type | Geometry (in) | Frequency Range (MHz) | Provided by: |
|---------------------|-----------------------|-----------------------|-----------------------------------|
| Loop – Copper Trace | 1.57 x 1.57 (4 Turns) | 13.56 | Phillips & Temro Industries, Inc. |

The EUT was tested using the power settings provided by the manufacturer which were based upon:

- ☒ Test software settings Software / firmware used for testing: 7.8.214
☐ Rated power settings

SETTINGS FOR ALL TESTS IN THIS REPORT

| Modulation Types | Power Setting (mA) |
|-------------------|--------------------|
| ISO/IEC 14443 ASK | 15 |

CONFIGURATIONS



Configuration PLIP0013-2

| EUT | | | |
|----------------------|-----------------------------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Wallmount EV Charger | Phillips & Temro Industries, Inc. | Evocharge Pro | ENG 598R |

| Cables | | | | | |
|-----------------|--------|------------|---------|----------------------|----------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC Power | No | 1.0 | No | Wallmount EV Charger | AC Power |
| EV Charge Cable | No | 5.3 | No | Wallmount EV Charger | Unterminated |
| Cat 6 | No | 4.6 | No | Wallmount EV Charger | Gigabit Switch |

Configuration PLIP0013-3

| EUT | | | |
|----------------------|-----------------------------------|-------------------|---------------|
| Description | Manufacturer | Model/Part Number | Serial Number |
| Wallmount EV Charger | Phillips & Temro Industries, Inc. | Evocharge Pro | ST0243020012 |

| Cables | | | | | |
|-----------------|--------|------------|---------|----------------------|----------------|
| Cable Type | Shield | Length (m) | Ferrite | Connection 1 | Connection 2 |
| AC Power | No | 1.0 | No | Wallmount EV Charger | AC Power |
| EV Charge Cable | No | 5.3 | No | Wallmount EV Charger | Unterminated |
| Cat 6 | No | 4.6 | No | Wallmount EV Charger | Gigabit Switch |

MODIFICATIONS

Equipment Modifications

| Item | Date | Test | Modification | Note | Disposition of EUT |
|------|------------|--|--------------------------------------|---|---|
| 1 | 2024-12-03 | Field Strength of Spurious Emissions (Less Than 30 MHz) | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 2 | 2024-12-03 | Field Strength of Fundamental | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 3 | 2024-12-05 | Field Strength of Spurious Emissions (Greater Than 30 MHz) | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 4 | 2024-12-09 | Frequency Stability | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 5 | 2024-12-11 | Powerline Conducted Emissions | Tested as delivered to test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 6 | 2024-12-05 | Occupied Bandwidth (99%) | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | EUT remained at Element following the test. |
| 7 | 2024-12-11 | Emissions Bandwidth (20 dB) | Tested as delivered to Test Station. | No EMI suppression devices were added or modified during this test. | Scheduled testing was completed. |

POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT.

The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10.

In the event that the operating frequency of 13.56 MHz is causing the product to fail the FCC 15.207 and RSS-Gen Table 4 limits, the following guidance can be used:

FCC KDB 174176 D01 AC Conducted FAQ v01r01, June 3, 2015 Section Q5 and RSS-Gen Clause 8.8:

For a device with a permanent or detachable antenna operating at or below 30 MHz, the FCC will accept measurements performed with a suitable dummy load in lieu of the antenna under the following conditions:

- (1) perform the AC power-line conducted tests with the antenna connected to determine compliance with Section 15.207 and RSS-Gen Table 4 limits outside the transmitter's fundamental emission band;
- (2) retest with a dummy load in lieu of the antenna to determine compliance with Section 15.207 and RSS-Gen Table 4 limits within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network which simulates the antenna in the fundamental frequency band.

All measurements must be performed as specified in clause 6.2 of ANSI C63.10-2013.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|----------------------------------|-------------------|--------------------|------|------------|------------|
| Receiver | Gauss Instruments | TDEMI 30M | ARN | 2024-05-22 | 2025-05-22 |
| Cable - Conducted Cable Assembly | Northwest EMC | EVG, HHD, RKT, VAB | EVGA | 2024-04-19 | 2025-04-19 |
| LISN | Solar Electronics | 9252-50-R-24-BNC | LIR | 2024-09-13 | 2025-09-13 |

CONFIGURATIONS INVESTIGATED

PLIP0013-2
PLIP0013-3

MODES INVESTIGATED

ISO/IEC 14443, 13.56 MHz RFID, ASK

POWERLINE CONDUCTED EMISSIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 57% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1020 mb |
| Tested By: | Jeff Alcock | Job Site: | EV07 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|-----------|-----------------------------|---|
| Run #: | 5 | Line: | High Line | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|-----------|-----------------------------|---|

COMMENTS

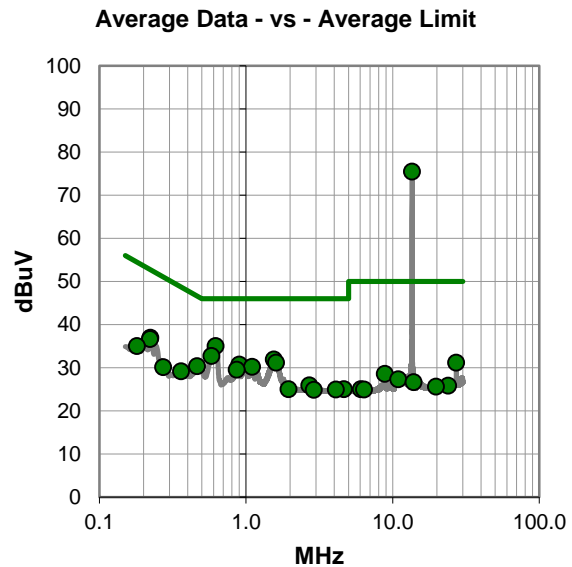
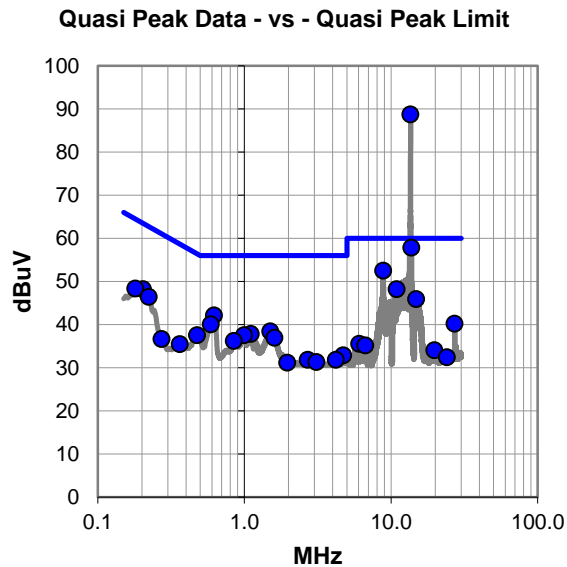
Unable to bundle EV charge cable due to excessive stiffness and length.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #5

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 13.560 | 67.8 | 20.9 | 88.7 | N/A | N/A |
| 13.772 | 36.9 | 20.9 | 57.8 | N/A | N/A |
| 8.835 | 32.0 | 20.5 | 52.5 | 60.0 | -7.5 |
| 10.915 | 27.5 | 20.7 | 48.2 | 60.0 | -11.8 |
| 0.621 | 22.2 | 19.9 | 42.1 | 56.0 | -13.9 |
| 14.818 | 24.9 | 21.0 | 45.9 | 60.0 | -14.1 |
| 0.203 | 28.2 | 20.0 | 48.2 | 63.5 | -15.3 |
| 0.589 | 20.1 | 19.9 | 40.0 | 56.0 | -16.0 |
| 0.181 | 28.3 | 20.0 | 48.3 | 64.5 | -16.2 |
| 0.223 | 26.4 | 20.0 | 46.4 | 62.7 | -16.3 |
| 1.505 | 18.4 | 20.0 | 38.4 | 56.0 | -17.6 |
| 1.104 | 17.8 | 20.0 | 37.8 | 56.0 | -18.2 |
| 0.997 | 17.5 | 20.0 | 37.5 | 56.0 | -18.5 |
| 0.475 | 17.6 | 19.9 | 37.5 | 56.4 | -18.9 |
| 1.604 | 16.9 | 20.0 | 36.9 | 56.0 | -19.1 |
| 27.120 | 18.2 | 22.0 | 40.2 | 60.0 | -19.8 |
| 0.846 | 16.3 | 19.9 | 36.2 | 56.0 | -19.8 |
| 4.712 | 12.5 | 20.3 | 32.8 | 56.0 | -23.2 |
| 0.362 | 15.5 | 19.9 | 35.4 | 58.7 | -23.3 |
| 2.706 | 11.7 | 20.1 | 31.8 | 56.0 | -24.2 |
| 4.199 | 11.5 | 20.3 | 31.8 | 56.0 | -24.2 |
| 0.272 | 16.7 | 19.9 | 36.6 | 61.1 | -24.5 |
| 6.072 | 15.2 | 20.3 | 35.5 | 60.0 | -24.5 |
| 3.096 | 11.2 | 20.1 | 31.3 | 56.0 | -24.7 |
| 1.958 | 11.1 | 20.0 | 31.1 | 56.0 | -24.9 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 13.560 | 54.5 | 20.9 | 75.4 | N/A | N/A |
| 0.621 | 15.1 | 19.9 | 35.0 | 46.0 | -11.0 |
| 0.580 | 12.8 | 19.9 | 32.7 | 46.0 | -13.3 |
| 1.549 | 11.9 | 20.0 | 31.9 | 46.0 | -14.1 |
| 1.604 | 11.1 | 20.0 | 31.1 | 46.0 | -14.9 |
| 0.902 | 10.7 | 20.0 | 30.7 | 46.0 | -15.3 |
| 0.223 | 16.9 | 20.0 | 36.9 | 52.7 | -15.8 |
| 1.102 | 10.2 | 20.0 | 30.2 | 46.0 | -15.8 |
| 0.222 | 16.6 | 20.0 | 36.6 | 52.8 | -16.2 |
| 0.464 | 10.4 | 19.9 | 30.3 | 46.6 | -16.3 |
| 0.864 | 9.6 | 19.9 | 29.5 | 46.0 | -16.5 |
| 27.120 | 9.1 | 22.0 | 31.1 | 50.0 | -18.9 |
| 0.181 | 15.0 | 20.0 | 35.0 | 54.5 | -19.5 |
| 0.361 | 9.2 | 19.9 | 29.1 | 48.7 | -19.6 |
| 2.706 | 5.8 | 20.1 | 25.9 | 46.0 | -20.1 |
| 0.272 | 10.2 | 19.9 | 30.1 | 51.1 | -21.0 |
| 1.954 | 5.0 | 20.0 | 25.0 | 46.0 | -21.0 |
| 4.654 | 4.7 | 20.3 | 25.0 | 46.0 | -21.0 |
| 4.096 | 4.6 | 20.3 | 24.9 | 46.0 | -21.1 |
| 2.907 | 4.7 | 20.1 | 24.8 | 46.0 | -21.2 |
| 8.838 | 8.0 | 20.5 | 28.5 | 50.0 | -21.5 |
| 10.915 | 6.6 | 20.7 | 27.3 | 50.0 | -22.7 |
| 13.931 | 5.7 | 20.9 | 26.6 | 50.0 | -23.4 |
| 23.914 | 4.1 | 21.7 | 25.8 | 50.0 | -24.2 |
| 19.729 | 4.3 | 21.3 | 25.6 | 50.0 | -24.4 |

CONCLUSION

N/A


Tested By

POWERLINE CONDUCTED EMISSIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 57% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1020 mb |
| Tested By: | Jeff Alcock | Job Site: | EV07 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|---------|-----------------------------|---|
| Run #: | 6 | Line: | Neutral | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|---------|-----------------------------|---|

COMMENTS

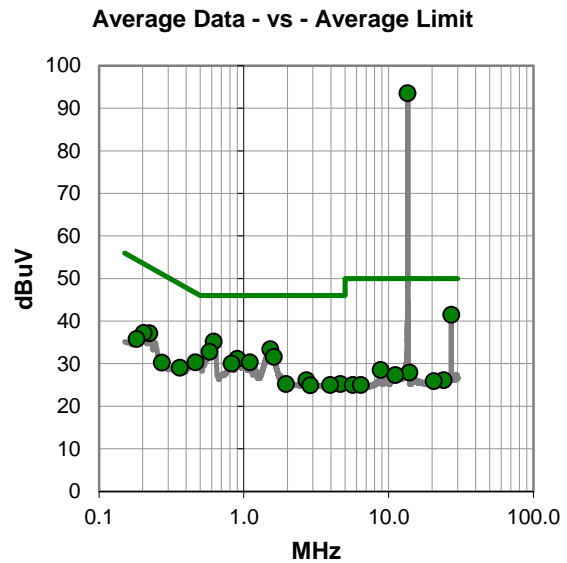
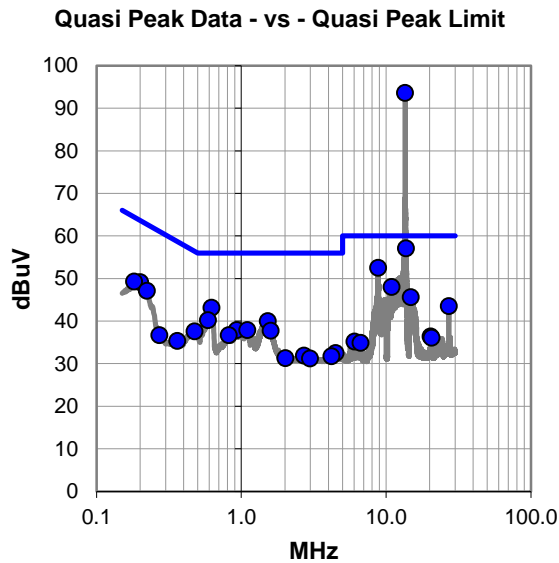
Unable to bundle EV charge cable due to excessive stiffness and length.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #6

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 13.560 | 72.7 | 20.9 | 93.6 | N/A | N/A |
| 13.772 | 36.2 | 20.9 | 57.1 | N/A | N/A |
| 8.836 | 32.0 | 20.5 | 52.5 | 60.0 | -7.5 |
| 10.915 | 27.3 | 20.7 | 48.0 | 60.0 | -12.0 |
| 0.625 | 23.2 | 19.9 | 43.1 | 56.0 | -12.9 |
| 14.818 | 24.6 | 21.0 | 45.6 | 60.0 | -14.4 |
| 0.200 | 29.1 | 20.0 | 49.1 | 63.6 | -14.5 |
| 0.182 | 29.3 | 20.0 | 49.3 | 64.4 | -15.1 |
| 0.223 | 27.1 | 20.0 | 47.1 | 62.7 | -15.6 |
| 0.589 | 20.3 | 19.9 | 40.2 | 56.0 | -15.8 |
| 1.525 | 20.0 | 20.0 | 40.0 | 56.0 | -16.0 |
| 27.120 | 21.5 | 22.0 | 43.5 | 60.0 | -16.5 |
| 0.933 | 17.9 | 20.0 | 37.9 | 56.0 | -18.1 |
| 1.102 | 17.9 | 20.0 | 37.9 | 56.0 | -18.1 |
| 1.596 | 17.7 | 20.0 | 37.7 | 56.0 | -18.3 |
| 0.475 | 17.7 | 19.9 | 37.6 | 56.4 | -18.8 |
| 0.820 | 16.8 | 19.9 | 36.7 | 56.0 | -19.3 |
| 0.361 | 15.4 | 19.9 | 35.3 | 58.7 | -23.4 |
| 4.494 | 12.2 | 20.3 | 32.5 | 56.0 | -23.5 |
| 20.310 | 15.1 | 21.3 | 36.4 | 60.0 | -23.6 |
| 20.684 | 14.7 | 21.4 | 36.1 | 60.0 | -23.9 |
| 2.706 | 11.8 | 20.1 | 31.9 | 56.0 | -24.1 |
| 4.198 | 11.4 | 20.3 | 31.7 | 56.0 | -24.3 |
| 0.272 | 16.8 | 19.9 | 36.7 | 61.1 | -24.4 |
| 2.022 | 11.3 | 20.0 | 31.3 | 56.0 | -24.7 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 13.560 | 72.6 | 20.9 | 93.5 | N/A | N/A |
| 27.120 | 19.5 | 22.0 | 41.5 | 50.0 | -8.5 |
| 0.620 | 15.3 | 19.9 | 35.2 | 46.0 | -10.8 |
| 1.526 | 13.4 | 20.0 | 33.4 | 46.0 | -12.6 |
| 0.580 | 12.9 | 19.9 | 32.8 | 46.0 | -13.2 |
| 1.613 | 11.6 | 20.0 | 31.6 | 46.0 | -14.4 |
| 0.902 | 11.1 | 20.0 | 31.1 | 46.0 | -14.9 |
| 0.223 | 17.1 | 20.0 | 37.1 | 52.7 | -15.6 |
| 1.102 | 10.3 | 20.0 | 30.3 | 46.0 | -15.7 |
| 0.824 | 10.1 | 19.9 | 30.0 | 46.0 | -16.0 |
| 0.203 | 17.2 | 20.0 | 37.2 | 53.5 | -16.3 |
| 0.464 | 10.4 | 19.9 | 30.3 | 46.6 | -16.3 |
| 0.182 | 15.8 | 20.0 | 35.8 | 54.4 | -18.6 |
| 0.361 | 9.1 | 19.9 | 29.0 | 48.7 | -19.7 |
| 2.706 | 6.0 | 20.1 | 26.1 | 46.0 | -19.9 |
| 1.955 | 5.2 | 20.0 | 25.2 | 46.0 | -20.8 |
| 4.654 | 4.9 | 20.3 | 25.2 | 46.0 | -20.8 |
| 0.272 | 10.3 | 19.9 | 30.2 | 51.1 | -20.9 |
| 3.957 | 4.7 | 20.3 | 25.0 | 46.0 | -21.0 |
| 2.881 | 4.8 | 20.1 | 24.9 | 46.0 | -21.1 |
| 8.835 | 8.0 | 20.5 | 28.5 | 50.0 | -21.5 |
| 13.933 | 7.0 | 20.9 | 27.9 | 50.0 | -22.1 |
| 11.136 | 6.6 | 20.7 | 27.3 | 50.0 | -22.7 |
| 24.021 | 4.4 | 21.7 | 26.1 | 50.0 | -23.9 |
| 20.507 | 4.5 | 21.4 | 25.9 | 50.0 | -24.1 |

CONCLUSION

N/A


Tested By

POWERLINE CONDUCTED EMISSIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ST0243020012 | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 57% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1020 mb |
| Tested By: | Jeff Alcock | Job Site: | EV07 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-3 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|---------|-----------------------------|---|
| Run #: | 7 | Line: | Neutral | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|---------|-----------------------------|---|

COMMENTS

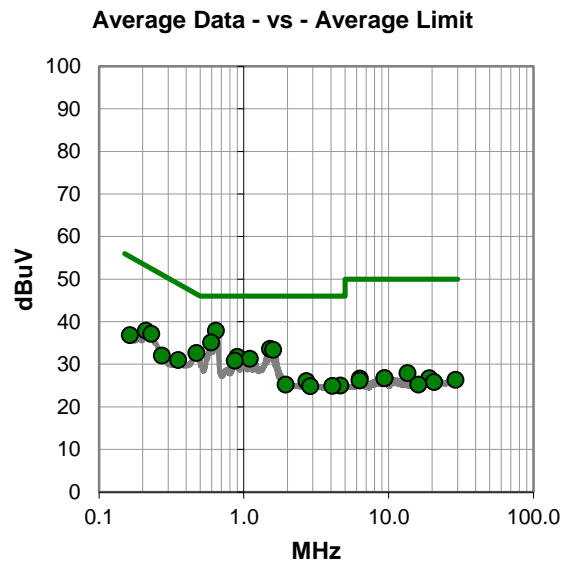
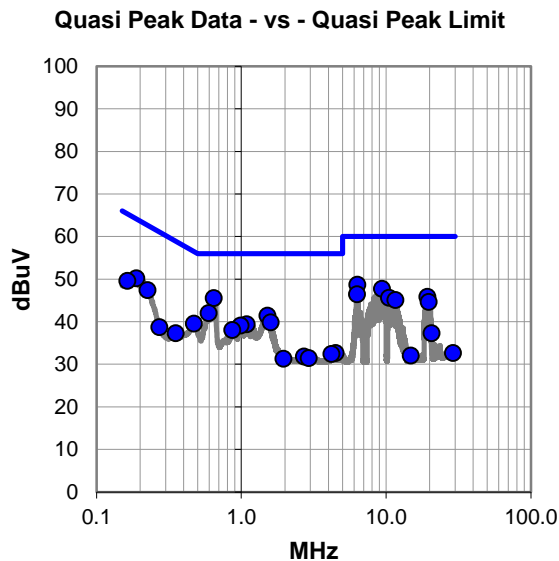
RFID antenna terminated with representative dummy load. Unable to bundle EV charge cable due to excessive stiffness and length.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #7

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 0.644 | 25.6 | 19.9 | 45.5 | 56.0 | -10.5 |
| 6.349 | 28.4 | 20.3 | 48.7 | 60.0 | -11.3 |
| 9.377 | 27.2 | 20.5 | 47.7 | 60.0 | -12.3 |
| 6.319 | 26.1 | 20.3 | 46.4 | 60.0 | -13.6 |
| 0.188 | 30.2 | 20.0 | 50.2 | 64.1 | -13.9 |
| 0.596 | 22.1 | 19.9 | 42.0 | 56.0 | -14.0 |
| 19.342 | 24.5 | 21.3 | 45.8 | 60.0 | -14.2 |
| 10.498 | 24.9 | 20.7 | 45.6 | 60.0 | -14.4 |
| 1.516 | 21.4 | 20.0 | 41.4 | 56.0 | -14.6 |
| 11.619 | 24.4 | 20.7 | 45.1 | 60.0 | -14.9 |
| 0.225 | 27.4 | 20.0 | 47.4 | 62.6 | -15.2 |
| 19.728 | 23.3 | 21.3 | 44.6 | 60.0 | -15.4 |
| 0.164 | 29.5 | 20.1 | 49.6 | 65.3 | -15.7 |
| 1.598 | 19.8 | 20.0 | 39.8 | 56.0 | -16.2 |
| 1.093 | 19.4 | 20.0 | 39.4 | 56.0 | -16.6 |
| 0.989 | 19.1 | 20.0 | 39.1 | 56.0 | -16.9 |
| 0.472 | 19.6 | 19.9 | 39.5 | 56.5 | -17.0 |
| 0.866 | 18.1 | 19.9 | 38.0 | 56.0 | -18.0 |
| 0.353 | 17.4 | 19.9 | 37.3 | 58.9 | -21.6 |
| 0.272 | 18.8 | 19.9 | 38.7 | 61.1 | -22.4 |
| 20.689 | 15.9 | 21.4 | 37.3 | 60.0 | -22.7 |
| 4.492 | 12.3 | 20.3 | 32.6 | 56.0 | -23.4 |
| 4.199 | 12.1 | 20.3 | 32.4 | 56.0 | -23.6 |
| 2.706 | 11.7 | 20.1 | 31.8 | 56.0 | -24.2 |
| 2.928 | 11.3 | 20.1 | 31.4 | 56.0 | -24.6 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 0.641 | 18.0 | 19.9 | 37.9 | 46.0 | -8.1 |
| 0.596 | 15.2 | 19.9 | 35.1 | 46.0 | -10.9 |
| 1.516 | 13.6 | 20.0 | 33.6 | 46.0 | -12.4 |
| 1.598 | 13.4 | 20.0 | 33.4 | 46.0 | -12.6 |
| 0.472 | 12.7 | 19.9 | 32.6 | 46.5 | -13.9 |
| 0.902 | 11.7 | 20.0 | 31.7 | 46.0 | -14.3 |
| 1.104 | 11.3 | 20.0 | 31.3 | 46.0 | -14.7 |
| 0.866 | 10.9 | 19.9 | 30.8 | 46.0 | -15.2 |
| 0.211 | 17.9 | 20.0 | 37.9 | 53.2 | -15.3 |
| 0.229 | 17.1 | 20.0 | 37.1 | 52.5 | -15.4 |
| 0.353 | 11.1 | 19.9 | 31.0 | 48.9 | -17.9 |
| 0.164 | 16.7 | 20.1 | 36.8 | 55.3 | -18.5 |
| 0.272 | 12.1 | 19.9 | 32.0 | 51.1 | -19.1 |
| 2.706 | 5.9 | 20.1 | 26.0 | 46.0 | -20.0 |
| 1.952 | 5.2 | 20.0 | 25.2 | 46.0 | -20.8 |
| 4.653 | 4.7 | 20.3 | 25.0 | 46.0 | -21.0 |
| 4.097 | 4.6 | 20.3 | 24.9 | 46.0 | -21.1 |
| 2.887 | 4.7 | 20.1 | 24.8 | 46.0 | -21.2 |
| 13.560 | 7.0 | 20.9 | 27.9 | 50.0 | -22.1 |
| 9.377 | 6.2 | 20.5 | 26.7 | 50.0 | -23.3 |
| 9.398 | 6.2 | 20.5 | 26.7 | 50.0 | -23.3 |
| 19.145 | 5.4 | 21.3 | 26.7 | 50.0 | -23.3 |
| 6.349 | 6.3 | 20.3 | 26.6 | 50.0 | -23.4 |
| 28.989 | 4.0 | 22.3 | 26.3 | 50.0 | -23.7 |
| 6.317 | 5.9 | 20.3 | 26.2 | 50.0 | -23.8 |

CONCLUSION

Pass



Tested By

POWERLINE CONDUCTED EMISSIONS

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ST0243020012 | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 57% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1020 mb |
| Tested By: | Jeff Alcock | Job Site: | EV07 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-3 |

TEST PARAMETERS

| | | | | | |
|--------|---|-------|-----------|-----------------------------|---|
| Run #: | 8 | Line: | High Line | Add. Ext. Attenuation (dB): | 0 |
|--------|---|-------|-----------|-----------------------------|---|

COMMENTS

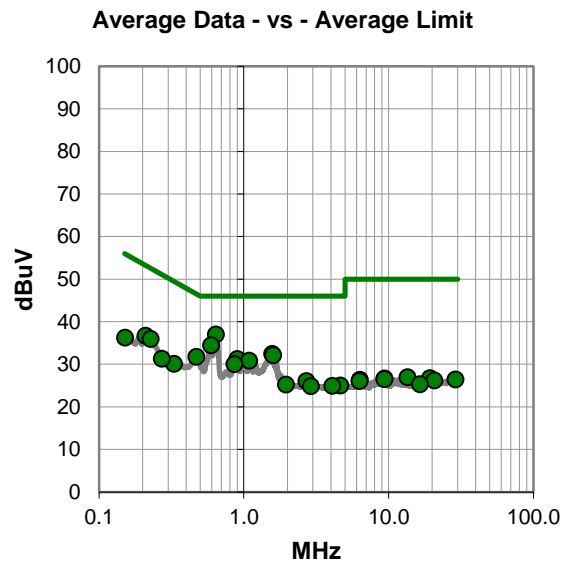
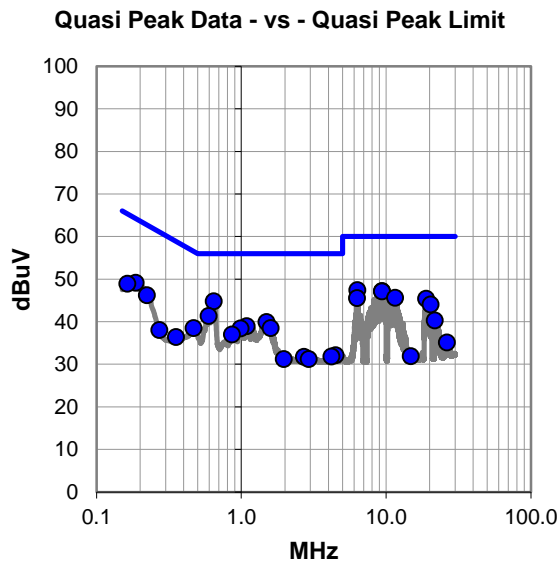
RFID antenna terminated with representative dummy load. Unable to bundle EV charge cable due to excessive stiffness and length.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #8

Quasi Peak Data - vs - Quasi Peak Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 0.644 | 24.9 | 19.9 | 44.8 | 56.0 | -11.2 |
| 6.346 | 27.1 | 20.3 | 47.4 | 60.0 | -12.6 |
| 9.399 | 26.7 | 20.5 | 47.2 | 60.0 | -12.8 |
| 9.377 | 26.6 | 20.5 | 47.1 | 60.0 | -12.9 |
| 11.546 | 24.9 | 20.7 | 45.6 | 60.0 | -14.4 |
| 6.319 | 25.2 | 20.3 | 45.5 | 60.0 | -14.5 |
| 18.937 | 24.1 | 21.3 | 45.4 | 60.0 | -14.6 |
| 0.596 | 21.4 | 19.9 | 41.3 | 56.0 | -14.7 |
| 0.187 | 29.1 | 20.0 | 49.1 | 64.2 | -15.1 |
| 20.310 | 22.7 | 21.3 | 44.0 | 60.0 | -16.0 |
| 1.491 | 19.9 | 20.0 | 39.9 | 56.0 | -16.1 |
| 0.164 | 28.8 | 20.1 | 48.9 | 65.3 | -16.4 |
| 0.223 | 26.2 | 20.0 | 46.2 | 62.7 | -16.5 |
| 1.093 | 18.9 | 20.0 | 38.9 | 56.0 | -17.1 |
| 1.596 | 18.5 | 20.0 | 38.5 | 56.0 | -17.5 |
| 0.991 | 18.4 | 20.0 | 38.4 | 56.0 | -17.6 |
| 0.467 | 18.6 | 19.9 | 38.5 | 56.6 | -18.1 |
| 0.864 | 17.1 | 19.9 | 37.0 | 56.0 | -19.0 |
| 21.681 | 18.9 | 21.4 | 40.3 | 60.0 | -19.7 |
| 0.354 | 16.5 | 19.9 | 36.4 | 58.9 | -22.5 |
| 0.272 | 18.1 | 19.9 | 38.0 | 61.1 | -23.1 |
| 4.492 | 11.8 | 20.3 | 32.1 | 56.0 | -23.9 |
| 4.196 | 11.5 | 20.3 | 31.8 | 56.0 | -24.2 |
| 2.706 | 11.6 | 20.1 | 31.7 | 56.0 | -24.3 |
| 1.963 | 11.2 | 20.0 | 31.2 | 56.0 | -24.8 |

Average Data - vs - Average Limit

| Freq (MHz) | Amp. (dBuV) | Factor (dB) | Adjusted (dBuV) | Spec. Limit (dBuV) | Margin (dB) |
|------------|-------------|-------------|-----------------|--------------------|-------------|
| 0.643 | 17.1 | 19.9 | 37.0 | 46.0 | -9.0 |
| 0.596 | 14.5 | 19.9 | 34.4 | 46.0 | -11.6 |
| 1.577 | 12.4 | 20.0 | 32.4 | 46.0 | -13.6 |
| 1.596 | 12.1 | 20.0 | 32.1 | 46.0 | -13.9 |
| 0.470 | 11.8 | 19.9 | 31.7 | 46.5 | -14.8 |
| 0.902 | 11.2 | 20.0 | 31.2 | 46.0 | -14.8 |
| 1.093 | 10.8 | 20.0 | 30.8 | 46.0 | -15.2 |
| 0.864 | 10.1 | 19.9 | 30.0 | 46.0 | -16.0 |
| 0.210 | 16.7 | 20.0 | 36.7 | 53.2 | -16.5 |
| 0.228 | 15.9 | 20.0 | 35.9 | 52.5 | -16.6 |
| 0.330 | 10.2 | 19.9 | 30.1 | 49.5 | -19.4 |
| 0.152 | 16.0 | 20.2 | 36.2 | 55.9 | -19.7 |
| 0.272 | 11.4 | 19.9 | 31.3 | 51.1 | -19.8 |
| 2.706 | 5.9 | 20.1 | 26.0 | 46.0 | -20.0 |
| 1.955 | 5.2 | 20.0 | 25.2 | 46.0 | -20.8 |
| 4.656 | 4.7 | 20.3 | 25.0 | 46.0 | -21.0 |
| 4.094 | 4.6 | 20.3 | 24.9 | 46.0 | -21.1 |
| 2.907 | 4.7 | 20.1 | 24.8 | 46.0 | -21.2 |
| 13.560 | 6.0 | 20.9 | 26.9 | 50.0 | -23.1 |
| 19.342 | 5.4 | 21.3 | 26.7 | 50.0 | -23.3 |
| 9.399 | 6.1 | 20.5 | 26.6 | 50.0 | -23.4 |
| 9.375 | 6.0 | 20.5 | 26.5 | 50.0 | -23.5 |
| 29.072 | 4.1 | 22.3 | 26.4 | 50.0 | -23.6 |
| 6.348 | 6.0 | 20.3 | 26.3 | 50.0 | -23.7 |
| 20.704 | 4.8 | 21.4 | 26.2 | 50.0 | -23.8 |

CONCLUSION

Pass



Tested By

EMISSIONS BANDWIDTH (20 DB)

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

A near-field probe was placed near the transmitter. A low-loss coaxial cable was used to connect the near-field probe to the spectrum analyzer.

As defined in FCC 15.215 Part (c), intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designed in the rule section under which the equipment is operated.

The 20 dB bandwidth must be contained within the band 13.110-14.010 MHz. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the emissions bandwidth (EBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto and a peak detector was used.

The spectrum analyzer bandwidth measurement function was used to measure the 20 dB bandwidth.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|--------------------------------|---------------------------|----------------|------|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFO | 2024-11-06 | 2025-11-06 |
| Attenuator | Pasternack | PE7049-20 | AUK | 2024-06-25 | 2025-06-25 |
| Probe - Near Field Set | EMCO | 7405 | IPD | NCR | NCR |
| Meter - Multimeter | Fluke | 77 III | MMG | 2024-01-26 | 2025-01-26 |
| Thermometer | Omega Engineering, Inc. | iTHx-SD-5 | DVG | 2024-04-15 | 2025-04-15 |
| Probe - Temperature/Humidity | Omega Engineering, Inc. | iTHP-5-DB9 | DVGA | 2024-04-15 | 2025-04-15 |
| Chamber - Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPH-8-1-1-H/AC | TBI | NCR | NCR |
| Power Supply | Pacific Power | 360AFX-2AG | TJE | NCR | NCR |

EMISSIONS BANDWIDTH (20 DB)



| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 63% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1016 mbar |
| Tested By: | Jeff Alcock | Job Site: | EV06 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

COMMENTS

None

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

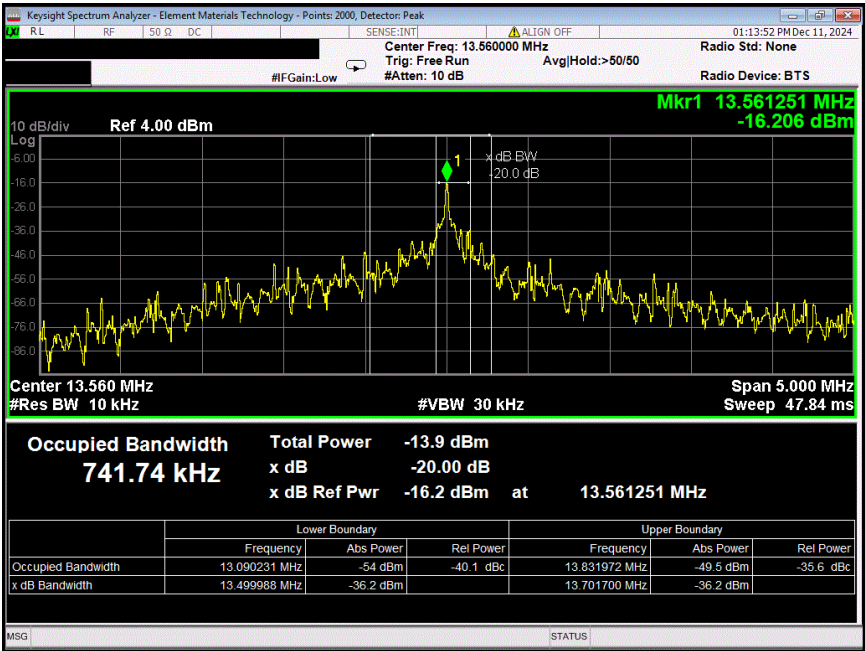
Pass


Tested By

TEST RESULTS

| 13.56 MHz RFID, ISO/IEC 15693 | 20 dB BW | | Limit (MHz) | Result |
|-------------------------------|-------------|--------------|---------------------------|--------|
| | F_low (MHz) | F_high (MHz) | | |
| Normal Conditions | 13.5 | 13.7 | $13.11 \leq f \leq 14.01$ | Pass |

EMISSIONS BANDWIDTH (20 DB)



13.56 MHz RFID, ISO/IEC 15693
Normal Conditions

FIELD STRENGTH OF FUNDAMENTAL

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

The fundamental carrier of the EUT was maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test to provide sufficient measurement sensitivity. The reference point of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

As outlined in RSS-GEN, 6.5, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

The limits in CFR 47, Part 15C 15.209(a) are identical to those in RSS-Gen section 8.9 Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, an E-Field measurement in dBuV/m can be converted to dBuA/m via the following formula: dBuV/m - 51.5 dB = dBuA/m. E-Field measurements have the same margin in dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limits

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------|-------------------------|-----|------------|------------|
| Antenna - Loop | EMCO | 6502 | AOA | 2024-10-23 | 2026-10-23 |
| Cable | None | 10m Test Distance Cable | EVL | 2024-01-17 | 2025-01-17 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFD | 2024-06-17 | 2025-06-17 |

FREQUENCY RANGE INVESTIGATED

10.56 MHz TO 16.56 MHz

POWER INVESTIGATED

208VAC/60Hz

CONFIGURATIONS INVESTIGATED

PLIP0013-2

MODES INVESTIGATED

ISO/IEC 14443, 13.56 MHz RFID, ASK

FIELD STRENGTH OF FUNDAMENTAL



| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-03 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 30% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1026 mb |
| Tested By: | Jeff Alcock | Job Site: | EV11 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

TEST PARAMETERS

| | | | | | |
|--------|---|--------------------|---|---------------------|-----------|
| Run #: | 7 | Test Distance (m): | 3 | Ant. Height(s) (m): | 1 to 4(m) |
|--------|---|--------------------|---|---------------------|-----------|

COMMENTS

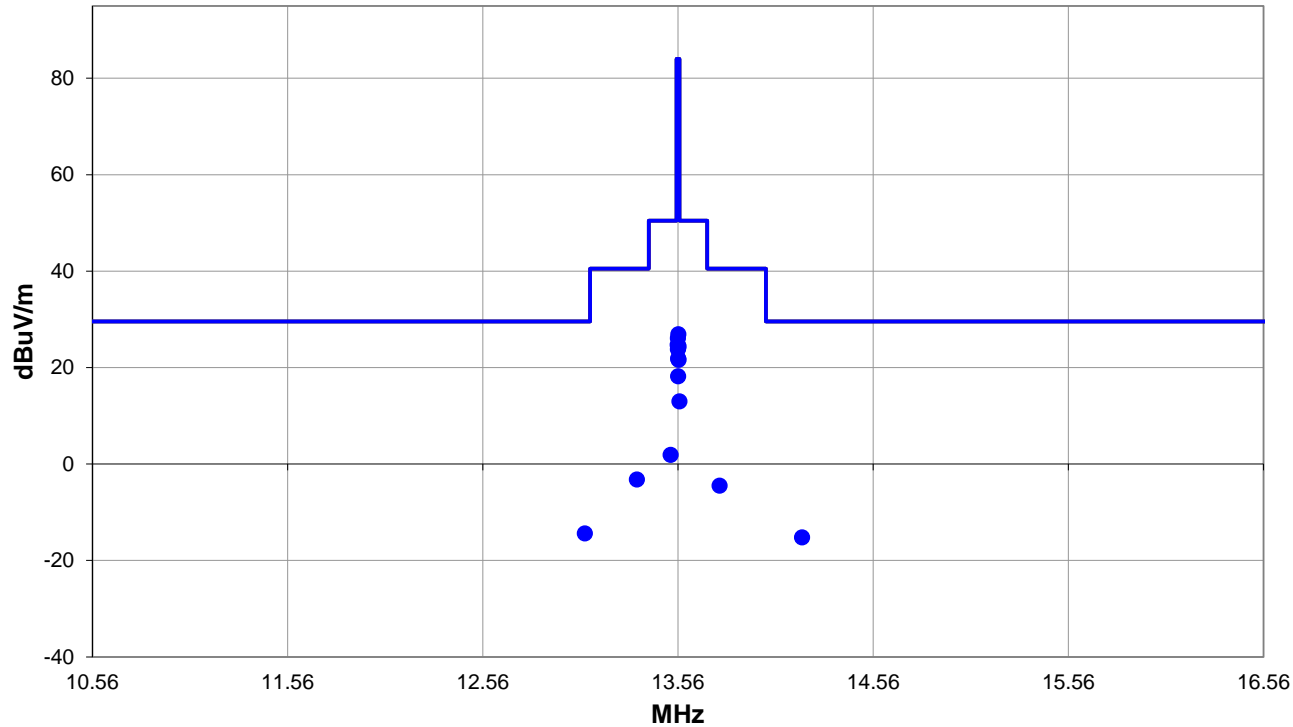
Please refer to the data comments below for EUT orientation.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



Run #: 7

PK AV QP

FIELD STRENGTH OF FUNDAMENTAL

RESULTS - Run #7

| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
|---------------|------------------|---------------|-------------------------|-------------------|------------------------|---------------------------|---------------------------|-----------|--------------------------|-------------------|----------------------|------------------------|--------------------|
| 13.567 | 42.2 | 10.8 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 13.0 | 50.5 | -37.5 | EUT Upright |
| 13.349 | 26.0 | 10.8 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | -3.2 | 40.5 | -43.7 | EUT Upright |
| 13.083 | 14.8 | 10.8 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | -14.4 | 29.5 | -43.9 | EUT Upright |
| 14.196 | 14.1 | 10.7 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | -15.2 | 29.5 | -44.7 | EUT Upright |
| 13.772 | 24.7 | 10.8 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | -4.5 | 40.5 | -45.0 | EUT Upright |
| 13.522 | 31.1 | 10.8 | 1.0 | 96.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 1.9 | 50.5 | -48.6 | EUT Upright |
| 13.561 | 56.1 | 10.8 | 1.0 | 113.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 26.9 | 84.0 | -57.1 | EUT Upright |
| 13.560 | 55.3 | 10.8 | 1.0 | 198.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | 26.1 | 84.0 | -57.9 | EUT on Side |
| 13.558 | 53.9 | 10.8 | 1.0 | 94.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 24.7 | 84.0 | -59.3 | EUT on Side |
| 13.562 | 53.6 | 10.8 | 1.0 | 195.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | 24.4 | 84.0 | -59.6 | EUT Upright |
| 13.560 | 53.2 | 10.8 | 1.54 | 198.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | 24.0 | 84.0 | -60.0 | EUT Upright |
| 13.560 | 53.0 | 10.8 | 1.49 | 198.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | 23.8 | 84.0 | -60.2 | EUT on Side |
| 13.561 | 51.1 | 10.8 | 1.0 | 185.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 21.9 | 84.0 | -62.1 | EUT Horz |
| 13.563 | 50.8 | 10.8 | 1.66 | 159.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | 21.6 | 84.0 | -62.4 | EUT Horz |
| 13.561 | 47.4 | 10.8 | 1.0 | 249.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | 18.2 | 84.0 | -65.8 | EUT Horz |

CONCLUSION

Pass



Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. A reference preview scan (pre-scan) is included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). An active loop antenna was used for this test to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

As outlined in RSS-GEN, 6.5, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

The limits in CFR 47, Part 15C 15.209(a) are identical to those in RSS-Gen section 8.9 Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, an E-Field measurement in dBuV/m can be converted to dBuA/m via the following formula: $\text{dBuV/m} - 51.5 \text{ dB} = \text{dBuA/m}$. E-Field measurements have the same margin in dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limits.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------|-------------------------|-----|------------|------------|
| Antenna - Loop | EMCO | 6502 | AOA | 2024-10-23 | 2026-10-23 |
| Cable | None | 10m Test Distance Cable | EVL | 2024-01-17 | 2025-01-17 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFD | 2024-06-17 | 2025-06-17 |

FREQUENCY RANGE INVESTIGATED

0.009 MHz TO 30 MHz

POWER INVESTIGATED

208VAC/60Hz

CONFIGURATIONS INVESTIGATED

PLIP0013-2

MODES INVESTIGATED

ISO/IEC 14443, 13.56 MHz RFID, ASK

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)



| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-03 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 30% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1026 mb |
| Tested By: | Jeff Alcock | Job Site: | EV11 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

TEST PARAMETERS

| | | | | | |
|--------|---|--------------------|---|---------------------|-----------|
| Run #: | 7 | Test Distance (m): | 3 | Ant. Height(s) (m): | 1 to 4(m) |
|--------|---|--------------------|---|---------------------|-----------|

COMMENTS

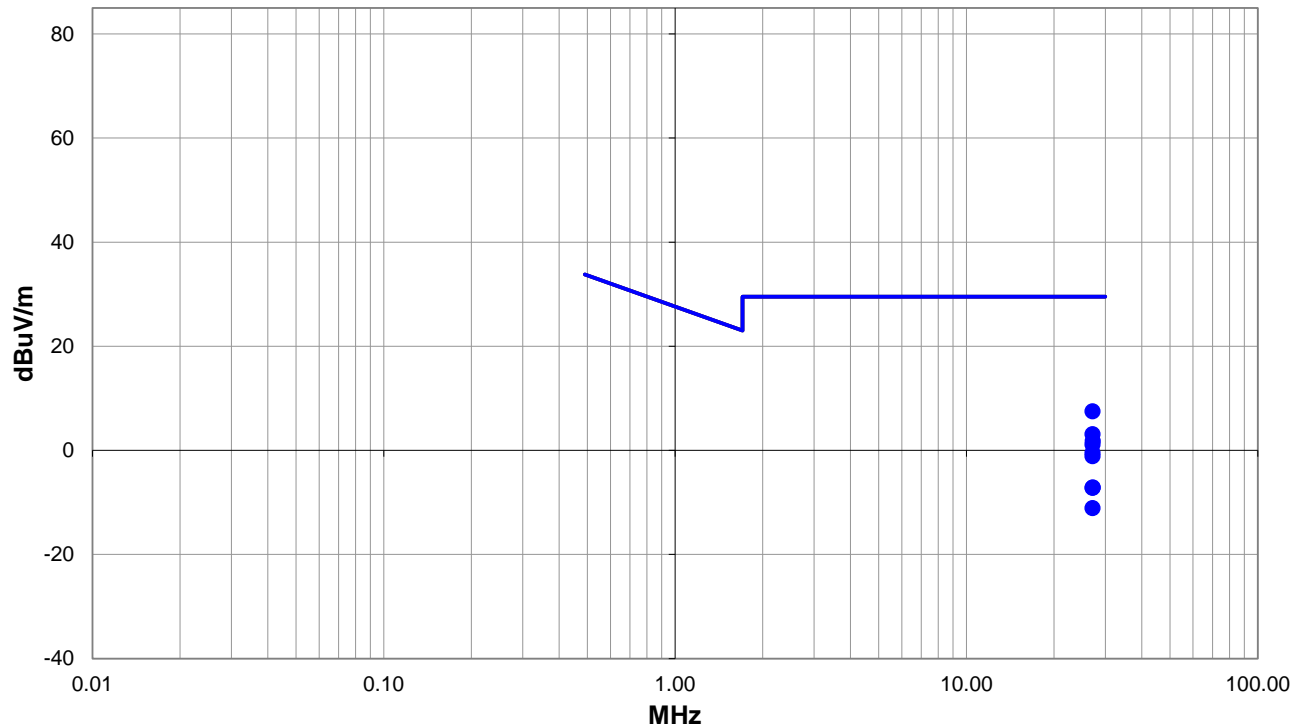
Please refer to the data comments below for EUT orientation.

EUT OPERATING MODES

ISO/IEC 14443, 13.56 MHz RFID, ASK

DEVIATIONS FROM TEST STANDARD

None



Run #: 7

PK AV QP

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)



RESULTS - Run #7

| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
|------------|------------------|---------------|-------------------------|-------------------|------------------------|---------------------------|---------------------------|----------|--------------------------|-------------------|----------------------|------------------------|-------------|
| 27.121 | 38.8 | 8.7 | 1.0 | 112.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | 7.5 | 29.5 | -22.0 | EUT Horz |
| 27.121 | 34.4 | 8.7 | 1.0 | 45.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | 3.1 | 29.5 | -26.4 | EUT on Side |
| 27.128 | 33.1 | 8.7 | 1.0 | 358.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 1.8 | 29.5 | -27.7 | EUT Horz |
| 27.121 | 32.4 | 8.7 | 1.0 | 111.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | 1.1 | 29.5 | -28.4 | EUT on Side |
| 27.120 | 30.8 | 8.7 | 1.0 | 45.0 | 3.0 | 0.0 | Par GND | QP | -40.0 | -0.5 | 29.5 | -30.0 | EUT Upright |
| 27.121 | 30.2 | 8.7 | 1.0 | 60.0 | 3.0 | 0.0 | Perp EUT | QP | -40.0 | -1.1 | 29.5 | -30.6 | EUT Upright |
| 27.126 | 24.2 | 8.7 | 1.0 | 60.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | -7.1 | 29.5 | -36.6 | EUT on Side |
| 27.120 | 24.1 | 8.7 | 1.0 | 315.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | -7.2 | 29.5 | -36.7 | EUT Horz |
| 27.121 | 20.2 | 8.7 | 1.0 | 334.0 | 3.0 | 0.0 | Par EUT | QP | -40.0 | -11.1 | 29.5 | -40.6 | EUT Upright |

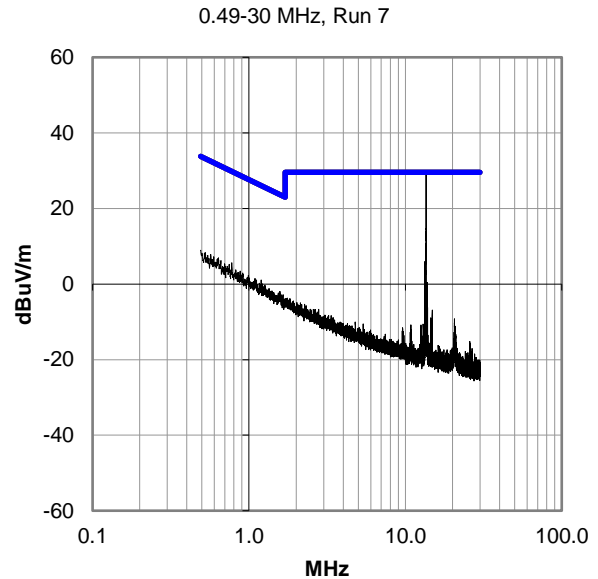
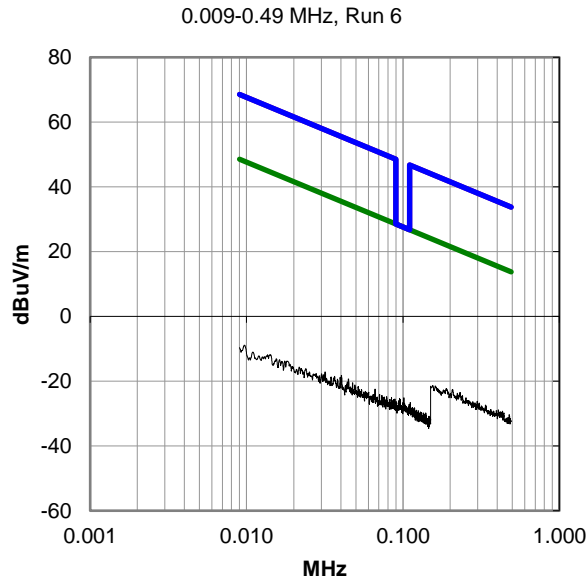
CONCLUSION
Pass

Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)

PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.



FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting while set at the operating channel.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These “pre-scans” are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out-of-band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|------------------------------|--------------------|---------------------------|-----|------------|------------|
| Antenna - Biconilog | EMCO | 3141 | AXG | 2023-09-14 | 2025-09-14 |
| Cable | None | 10m Test Distance Cable | EVL | 2024-01-17 | 2025-01-17 |
| Amplifier - Pre-Amplifier | Fairview Microwave | FMAM63001 | PAY | 2024-01-17 | 2025-01-17 |
| Analyzer - Spectrum Analyzer | Agilent | E4440A | AFD | 2024-06-17 | 2025-06-17 |
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFO | 2024-11-06 | 2025-11-06 |
| Antenna - Double Ridge | ETS Lindgren | 3115 | AIZ | 2024-03-08 | 2026-03-08 |
| Antenna - Standard Gain | ETS Lindgren | 3160-07 | AHU | NCR | NCR |
| Antenna - Standard Gain | ETS Lindgren | 3160-08 | AHV | NCR | NCR |
| Antenna - Standard Gain | ETS Lindgren | 3160-09 | AIV | NCR | NCR |
| Antenna - Standard Gain | ETS Lindgren | 3160-10 | AIW | NCR | NCR |
| Amplifier - Pre-Amplifier | Miteq | AMF-3D-00100800-32-13P | PAG | 2024-10-28 | 2025-10-28 |
| Amplifier - Pre-Amplifier | L-3 Narda-MITEQ | AMF-6F-08001200-30-10P | PAO | 2024-10-28 | 2025-10-28 |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-12001800-30-10P | AVD | 2024-10-28 | 2025-10-28 |
| Amplifier - Pre-Amplifier | Miteq | AMF-6F-18002650-25-10P | AVU | 2024-07-09 | 2025-07-09 |
| Amplifier - Pre-Amplifier | Miteq | JSW45-26004000-40-5P | PAE | 2024-04-04 | 2025-04-04 |
| Cable | N/A | Double Ridge Horn Cables | EVB | 2024-10-28 | 2025-10-28 |
| Cable | None | Standard Gain Horn Cables | EVF | 2024-10-28 | 2025-10-28 |
| Cable | ESM Cable Corp. | TTBJ141-KMKM-72 | EVY | 2024-07-09 | 2025-07-09 |
| Cable | ESM Cable Corp. | KNKN-72 SMA Cable | EVZ | 2024-04-04 | 2025-04-04 |
| Filter - High Pass | Micro-Tronics | HPM50111 | HFO | 2024-10-28 | 2025-10-28 |
| Attenuator | Coaxicom | 3910-10 | AWX | 2024-10-28 | 2025-10-28 |

FREQUENCY RANGE INVESTIGATED

30 MHz TO 40000 MHz

POWER INVESTIGATED

208VAC/60Hz

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)



CONFIGURATIONS INVESTIGATED

PLIP0013-2

MODES INVESTIGATED 30 – 1000 MHz

ISO/IEC 14443, 13.56 MHz RFID, ASK

MODES INVESTIGATED 1 GHz – 40 GHz

ISO/IEC 14443, 13.56 MHz RFID, ASK, 802.11bgn beaconing on 2412 MHz, BLE in advertising mode

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)



| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-05 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 30% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1026 mb |
| Tested By: | Jeff Alcock | Job Site: | EV11 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

TEST PARAMETERS

| | | | | | |
|--------|---|--------------------|---|---------------------|-----------|
| Run #: | 8 | Test Distance (m): | 3 | Ant. Height(s) (m): | 1 to 4(m) |
|--------|---|--------------------|---|---------------------|-----------|

COMMENTS

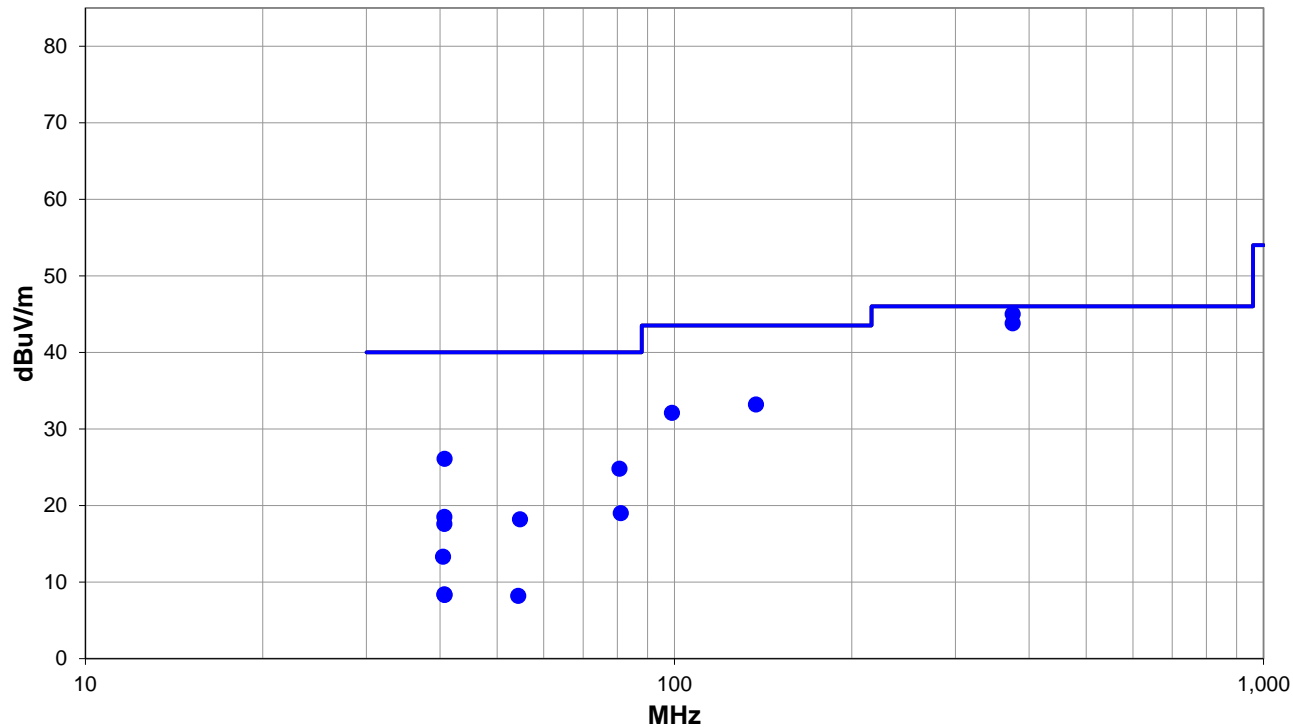
| |
|------|
| None |
|------|

EUT OPERATING MODES

| |
|------------------------------------|
| ISO/IEC 14443, 13.56 MHz RFID, ASK |
|------------------------------------|

DEVIATIONS FROM TEST STANDARD

| |
|------|
| None |
|------|



Run #: 8

PK AV QP

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)

RESULTS - Run #8

| Freq (MHz) | Amplitude (dBuV) | Factor (dB/m) | Antenna Height (meters) | Azimuth (degrees) | Test Distance (meters) | External Attenuation (dB) | Polarity/ Transducer Type | Detector | Distance Adjustment (dB) | Adjusted (dBuV/m) | Spec. Limit (dBuV/m) | Compared to Spec. (dB) | Comments |
|------------|------------------|---------------|-------------------------|-------------------|------------------------|---------------------------|---------------------------|----------|--------------------------|-------------------|----------------------|------------------------|-------------|
| 375.000 | 62.5 | -17.5 | 2.14 | 220.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 45.0 | 46.0 | -1.0 | EUT Vert |
| 375.000 | 61.3 | -17.5 | 2.75 | 31.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 43.8 | 46.0 | -2.2 | EUT Vert |
| 137.498 | 60.7 | -27.5 | 1.0 | 82.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 33.2 | 43.5 | -10.3 | EUT Vert |
| 99.000 | 59.4 | -27.3 | 1.01 | 7.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 32.1 | 43.5 | -11.4 | EUT Vert |
| 40.698 | 50.1 | -24.0 | 1.0 | 38.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 26.1 | 40.0 | -13.9 | EUT Vert |
| 80.626 | 53.9 | -29.1 | 1.33 | 26.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 24.8 | 40.0 | -15.2 | EUT Vert |
| 81.051 | 48.1 | -29.1 | 3.91 | 20.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 19.0 | 40.0 | -21.0 | EUT Vert |
| 40.676 | 42.5 | -24.0 | 4.0 | 143.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 18.5 | 40.0 | -21.5 | EUT Vert |
| 54.688 | 45.9 | -27.7 | 1.0 | 333.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 18.2 | 40.0 | -21.8 | EUT Vert |
| 40.681 | 41.6 | -24.0 | 1.01 | 38.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 17.6 | 40.0 | -22.4 | EUT Horz |
| 40.471 | 37.2 | -23.9 | 1.0 | 168.0 | 3.0 | 0.0 | Vert | QP | 0.0 | 13.3 | 40.0 | -26.7 | EUT on Side |
| 40.678 | 32.4 | -24.0 | 1.0 | 270.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 8.4 | 40.0 | -31.6 | EUT Horz |
| 40.710 | 32.3 | -24.0 | 1.0 | 188.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 8.3 | 40.0 | -31.7 | EUT on Side |
| 54.285 | 35.9 | -27.7 | 3.6 | 107.0 | 3.0 | 0.0 | Horz | QP | 0.0 | 8.2 | 40.0 | -31.8 | EUT Vert |

CONCLUSION

Pass



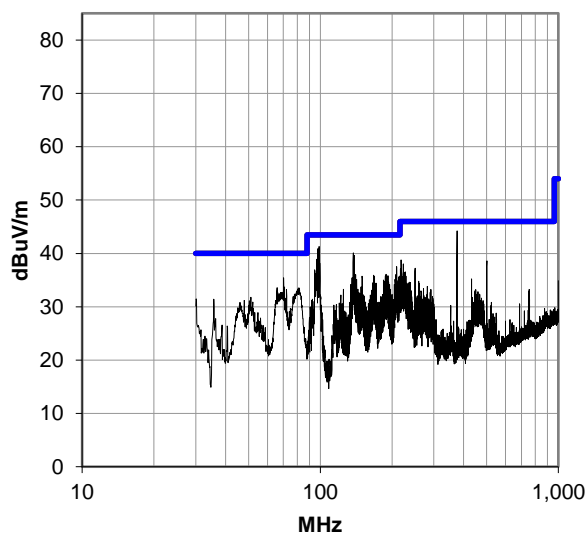
Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)

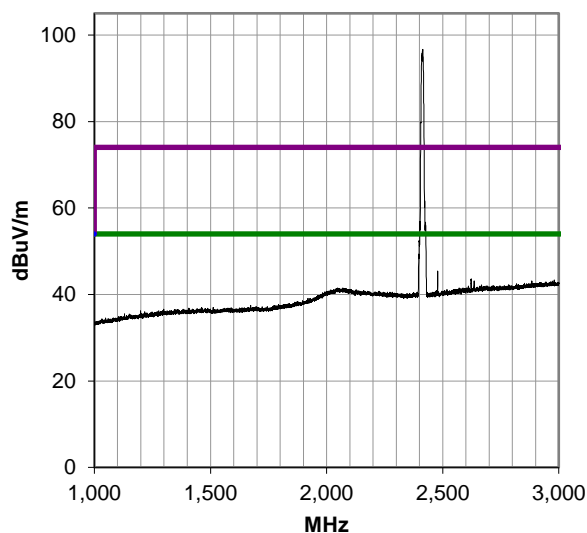
PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

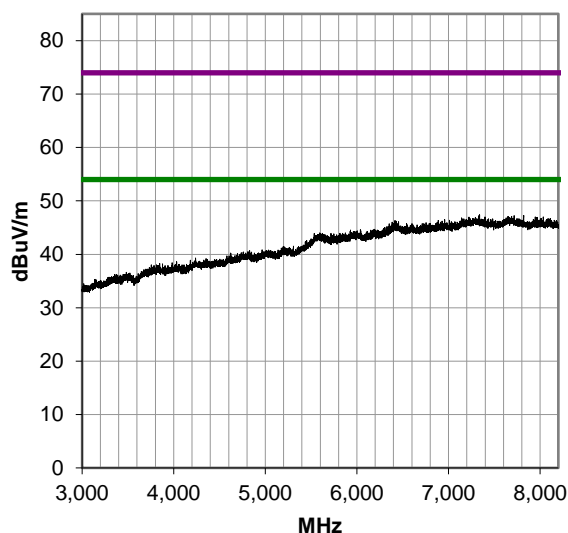
30-1000 MHz, Run 8



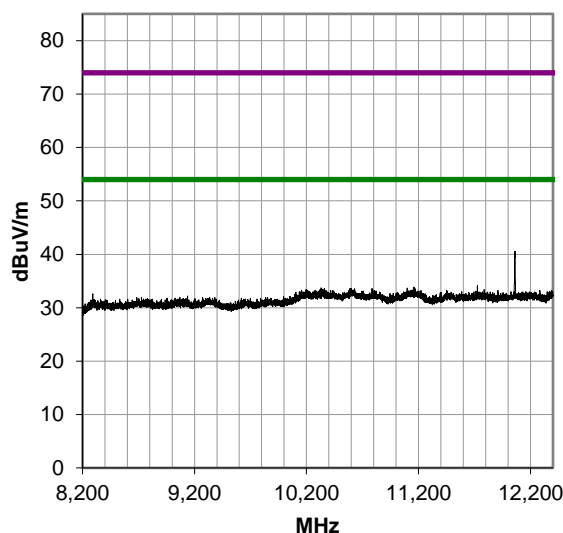
1000-3000 MHz, Run 4



3000-8200 MHz, Run 5

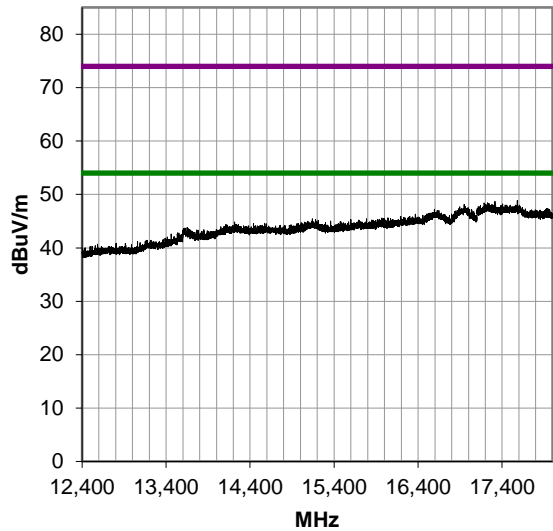


8200-12400 MHz, Run 6

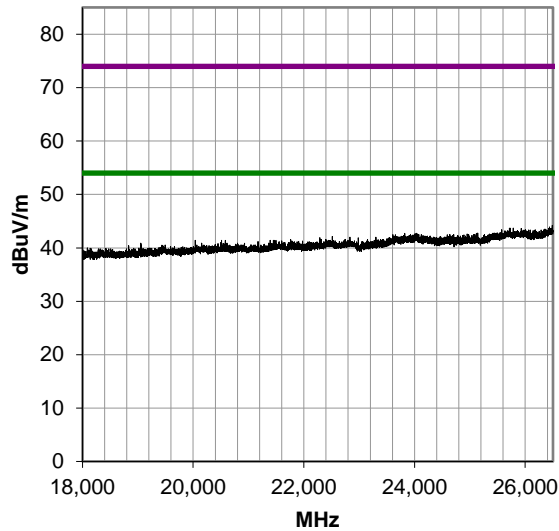


FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THAN 30 MHz)

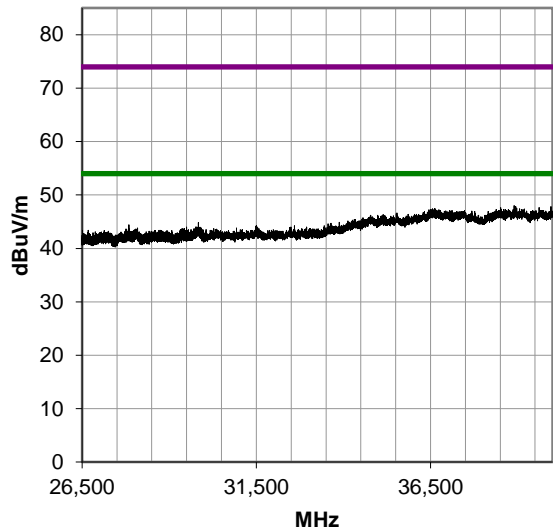
12400-18000 MHz, Run 7



18000-26500 MHz, Run 8



26500-40000 MHz, Run 9



FREQUENCY STABILITY

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

A near-field probe was placed near the transmitter. A low-loss coaxial cable was used to connect the near-field probe to the spectrum analyzer.

The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

Measurements were made on the single transmit frequency as called out on the data sheets. Testing was done while the EUT was continuously polling.

The primary supply voltage was varied from 85 % to 115% of the nominal voltage while at ambient temperature. Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range of -20 ° to +50° C and at 10°C intervals.

The requirement of a frequency tolerance of $\pm 0.01\%$ is equivalent to 100 ppm
The formula to check for compliance is:

$$\text{ppm} = (\text{Measured Frequency} / \text{Measured Nominal Frequency} - 1) * 1,000,000$$

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|--------------------------------|---------------------------|----------------|------|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFO | 2024-11-06 | 2025-11-06 |
| Attenuator | Pasternack | PE7049-20 | AUK | 2024-06-25 | 2025-06-25 |
| Probe - Near Field Set | EMCO | 7405 | IPD | NCR | NCR |
| Meter - Multimeter | Fluke | 77 III | MMG | 2024-01-26 | 2025-01-26 |
| Thermometer | Omega Engineering, Inc. | iTHx-SD-5 | DVG | 2024-04-15 | 2025-04-15 |
| Probe - Temperature/Humidity | Omega Engineering, Inc. | iTHP-5-DB9 | DVGA | 2024-04-15 | 2025-04-15 |
| Chamber - Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPH-8-1-1-H/AC | TBI | NCR | NCR |
| Power Supply | Pacific Power | 360AFX-2AG | TJE | NCR | NCR |

FREQUENCY STABILITY

| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-09 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 40% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1028 mbar |
| Tested By: | Jeff Alcock | Job Site: | EV06 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

COMMENTS

Normal Conditions = 208 VAC / 60 Hz
Extreme Voltage 115% = 239.2 VAC / 60 Hz
Extreme Voltage 85% = 176.8 VAC / 60 Hz

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

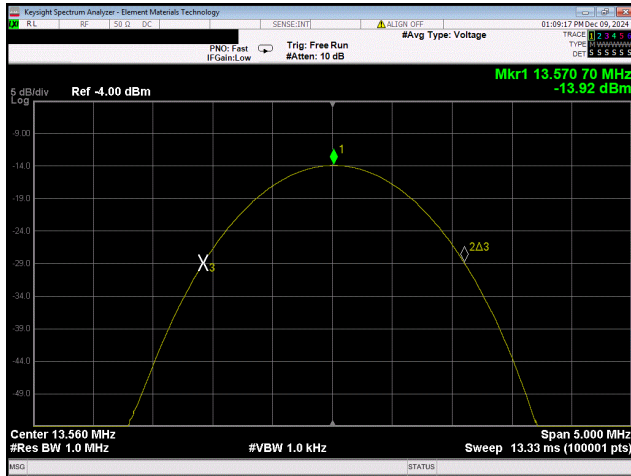


Tested By

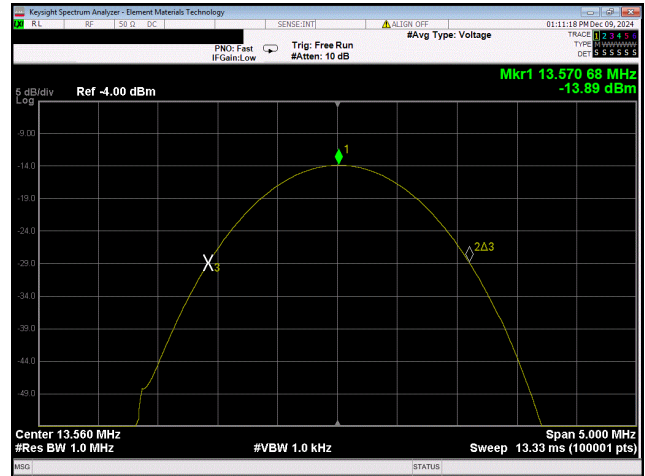
TEST RESULTS

| | Measured Value (MHz) | Nominal Value (MHz) | Error (ppm) | Limit (ppm) | Results |
|-------------------------------|----------------------|---------------------|-------------|-------------|---------|
| 13.56 MHz RFID, ISO/IEC 15693 | | | | | |
| Normal Conditions | 13.570700 | 13.570700 | 0 | 100 | Pass |
| Extreme Voltage 115% | 13.570675 | 13.570700 | 1.84 | 100 | Pass |
| Extreme Voltage 85% | 13.570700 | 13.570700 | 0 | 100 | Pass |
| Extreme Temperature +50°C | 13.570825 | 13.570700 | 9.21 | 100 | Pass |
| Extreme Temperature +40°C | 13.570575 | 13.570700 | 9.21 | 100 | Pass |
| Extreme Temperature +30°C | 13.570600 | 13.570700 | 7.37 | 100 | Pass |
| Extreme Temperature +20°C | 13.570625 | 13.570700 | 5.53 | 100 | Pass |
| Extreme Temperature +10°C | 13.570575 | 13.570700 | 9.21 | 100 | Pass |
| Extreme Temperature +0°C | 13.570800 | 13.570700 | 7.37 | 100 | Pass |
| Extreme Temperature -10°C | 13.570750 | 13.570700 | 3.68 | 100 | Pass |
| Extreme Temperature -20°C | 13.570650 | 13.570700 | 3.68 | 100 | Pass |

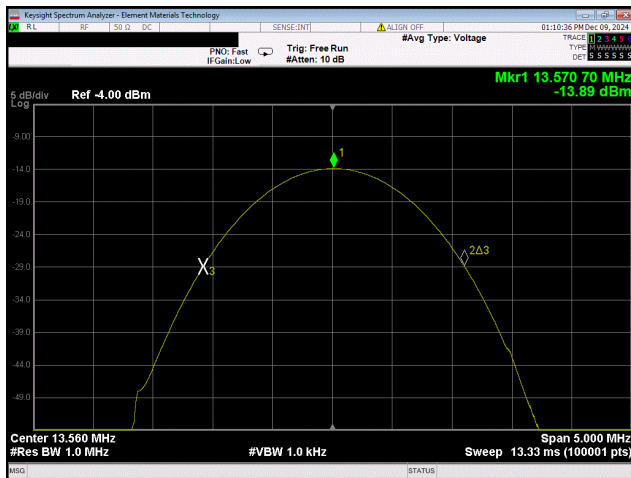
FREQUENCY STABILITY



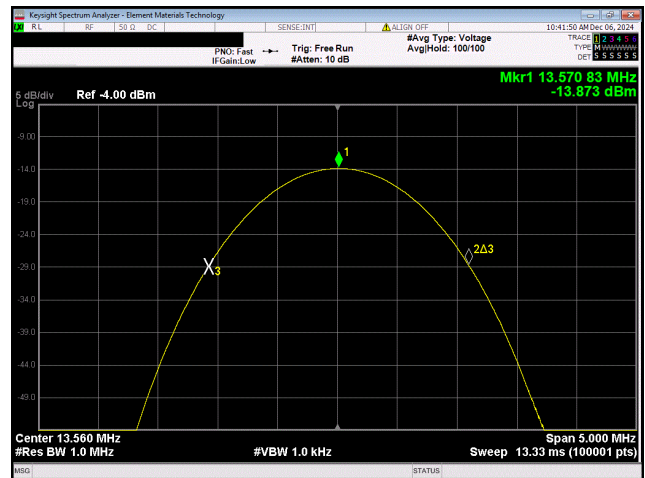
**13.56 MHz RFID, ISO/IEC 15693
Normal Conditions**



**13.56 MHz RFID, ISO/IEC 15693
Extreme Voltage 115%**

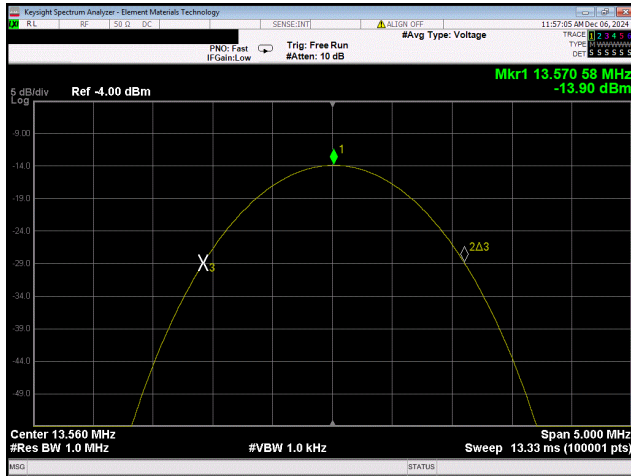


**13.56 MHz RFID, ISO/IEC 15693
Extreme Voltage 85%**

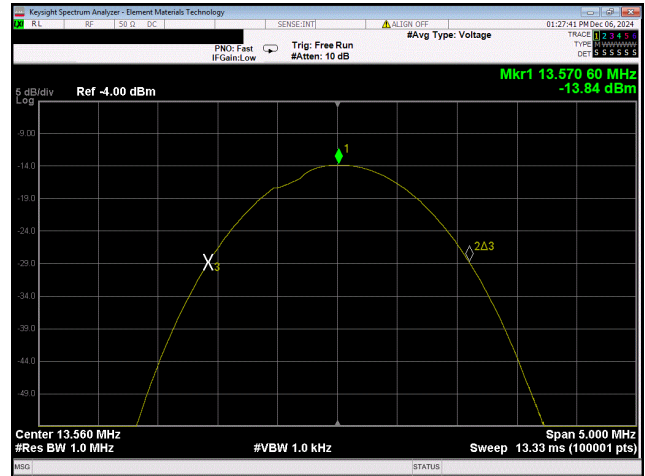


**13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +50°C**

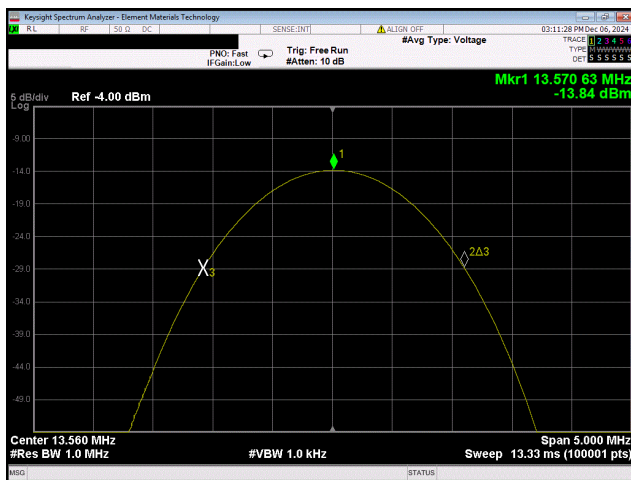
FREQUENCY STABILITY



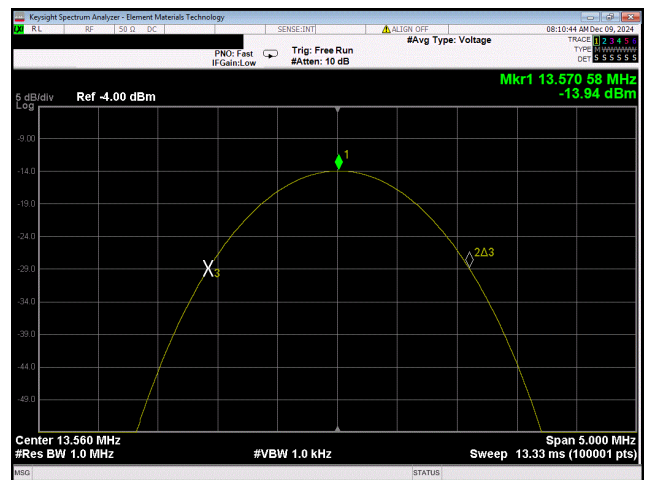
13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +40°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +30°C

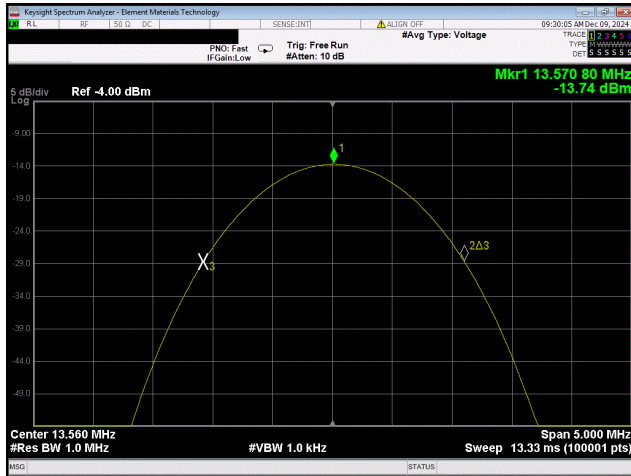


13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +20°C

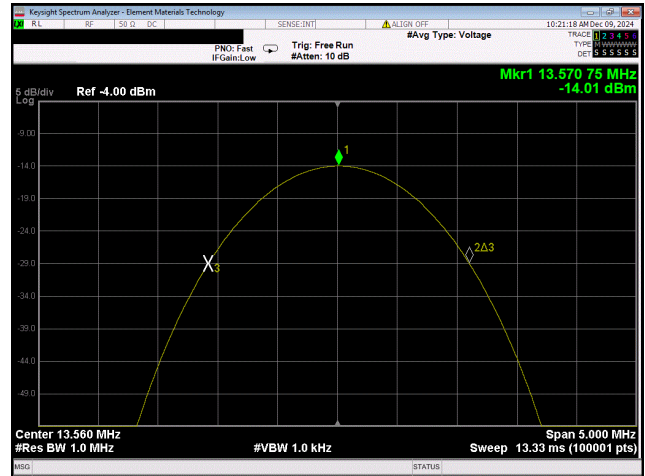


13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +10°C

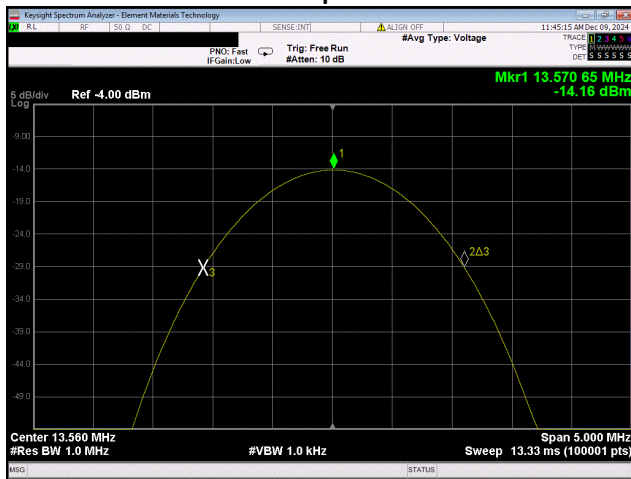
FREQUENCY STABILITY



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +0°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature -10°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature -20°C

OCCUPIED BANDWIDTH (99%)

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made in a radiated configuration of the fundamental with the carrier fully maximized for its highest radiated power.

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth as defined in RSS-Gen.

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto to prevent video filtering or averaging. A sample detector was used unless the device was not able to be operated in a continuous transmit mode, in which case a peak detector was used.

The spectrum analyzer occupied bandwidth measurement function was used to sum the power of the transmission in linear terms to obtain the 99% bandwidth.

TEST EQUIPMENT

| Description | Manufacturer | Model | ID | Last Cal. | Cal. Due |
|--------------------------------|---------------------------|----------------|------|------------|------------|
| Analyzer - Spectrum Analyzer | Keysight | N9010A | AFO | 2024-11-06 | 2025-11-06 |
| Attenuator | Pasternack | PE7049-20 | AUK | 2024-06-25 | 2025-06-25 |
| Probe - Near Field Set | EMCO | 7405 | IPD | NCR | NCR |
| Meter - Multimeter | Fluke | 77 III | MMG | 2024-01-26 | 2025-01-26 |
| Thermometer | Omega Engineering, Inc. | iTHx-SD-5 | DVG | 2024-04-15 | 2025-04-15 |
| Probe - Temperature/Humidity | Omega Engineering, Inc. | iTHP-5-DB9 | DVGA | 2024-04-15 | 2025-04-15 |
| Chamber - Temperature/Humidity | Cincinnati Sub Zero (CSZ) | ZPH-8-1-1-H/AC | TBI | NCR | NCR |
| Power Supply | Pacific Power | 360AFX-2AG | TJE | NCR | NCR |

OCCUPIED BANDWIDTH (99%)



| | | | |
|-------------------|-----------------------------------|-----------------------|------------|
| EUT: | Evocharge Pro | Work Order: | PLIP0013 |
| Serial Number: | ENG 598R | Date: | 2024-12-11 |
| Customer: | Phillips & Temro Industries, Inc. | Temperature: | 23°C |
| Attendees: | None | Relative Humidity: | 63% |
| Customer Project: | None | Bar. Pressure (PMSL): | 1016 mbar |
| Tested By: | Jeff Alcock | Job Site: | EV06 |
| Power: | 208VAC/60Hz | Configuration: | PLIP0013-2 |

COMMENTS
None

DEVIATIONS FROM TEST STANDARD
None

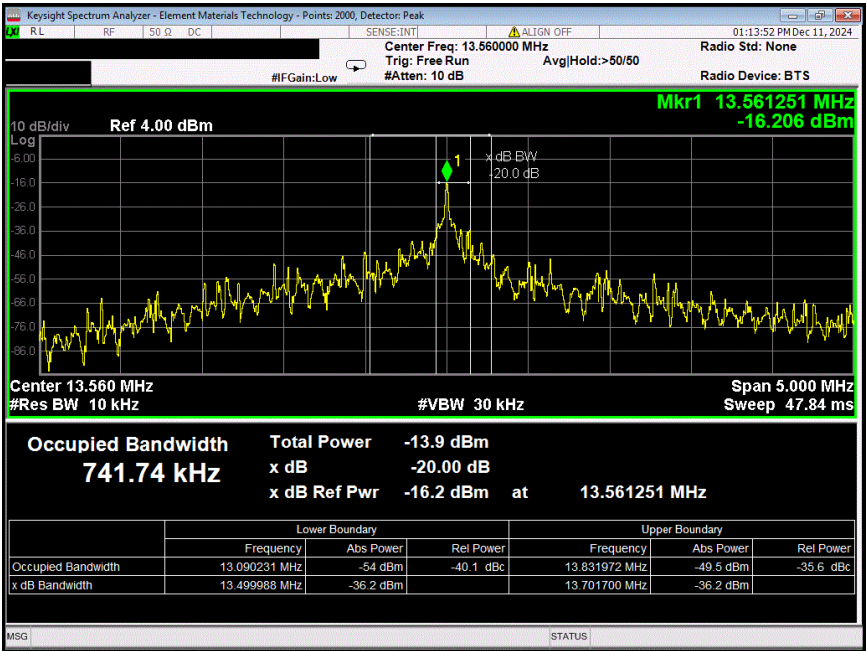
CONCLUSION
N/A


Tested By

TEST RESULTS

| | Value (kHz) | Limit | Result |
|------------------------------------|-------------|-------|--------|
| 13.56 MHz RFID, ISO/IEC 14443, ASK | 741.7 | N/A | N/A |

OCCUPIED BANDWIDTH (99%)



13.56 MHz RFID, ISO/IEC 14443, ASK

End of Test Report