

TEST REPORT



Testing Certification # 1367-01

Laboratory ID

PRODUCT SAFETY ENGINEERING, INC.
12955 Bellamy Brothers Boulevard
Dade City, Florida 33525 USA
PH (352) 588-2209 FX (352) 588-2544

Submitter ID

Idopi Labs, Inc
3705 Century Blvd.
Suite 4
Lakeland, FL 33811

Report Issue Date: 02 Apr 2015
Sample S/N: None
Sample Receipt Date: 05 Mar 2015
Sample Test Date: see data sheets

Test Report Number: 14F489B
Model Designation: BEI Band
Product Description: RFID Transmitter

Description of non-standard test method or test practice: *None*

Estimated Measurement Uncertainty: *See page 9. This uncertainty represents and expanded uncertainty expressed at approximately 95% confidence level using a coverage factor of k=2.*

Special limitations of use: *None*

Traceability: *reference standards of measurement have been calibrated by a competent body using standards traceable to the NIST.*

According to testing performed at Product Safety Engineering, Inc., the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in regulations indicated on page (3) of the test report. The test results contained herein relate only to the item identified above. It is the manufacturer's responsibility to assure that additional production units are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Project Engineer, I hereby declare that the equipment tested as specified above conforms to the requirements indicated on page (3) of the test report.

Signature

Name David Foerstner

Title Engineering Group Leader

Date 02 Apr 2015

Reviewed by:

Approved Signatory

Date 02 Apr 2015

Steve Hoke (EMC Site Manager)

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Product Safety Engineering, Inc 12955 Bellamy Brothers Blvd. Dade City, FL 33525
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DIRECTORY - EMISSIONS

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| Directory | | 2 |
| Test Regulations | | 3 |
| General Remarks | | 10 |
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| B) Test data | | |
| Conducted emissions | 10/150 kHz - 30 MHz | 5, 9 |
| Radiated emissions | 10 kHz - 30 MHz | 5, 9 |
| Radiated emissions | 30 MHz - 1000 MHz | 6, 9 |
| Disturbance power | 30 MHz - 300 MHz | 6, 9 |
| Equivalent Radiated emissions | 1 GHz - 18 GHz | 7, 9 |
| Antenna Disturbance Voltage | 30 MHz - 1,000 MHz | 7, 9 |
| C) Appendix A | | |
| Test Data Sheets | | A2 - A4 |
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| System Under Test Description | | B1 - B1 |
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EMISSIONS TEST REGULATIONS :

The emissions tests were performed according to following regulations:

- ☐ - EN 61000-6-3:2007
- ☐ - EN 61000-6-4:2007
- ☐ - EN 60601-1-2:2007
- ☐ - EN 55011 : 2009/A1:2010
 - ☐ - Group 1
 - ☐ - Class A
- ☐ - EN 55013 : 2001 /A1:2003 /A2:2006
 - ☐ - Group 2
 - ☐ - Class B
- ☐ - EN 55014 -1: 2006/A2:2011
 - ☐ - Household appliances and similar
 - ☐ - Portable tools
 - ☐ - Semiconductor devices
- ☐ - EN 55022:2010/AC:2011
 - ☐ - Class A
- ☐ - CISPR 22:2008
 - ☐ - Class B
- ☐ -AS/NZS CISPR 22:2009
 - ☐ - Class A
 - ☐ - Class B
- ☐ - ICES-003
 - ☐ - Class A
 - ☐ - Class B
- ☐ - CNS 13438
 - ☐ - Class A
 - ☐ - Class B
- ☐ - VCCI V-3/2013.4
 - ☐ - Class A
 - ☐ - Class B
- ☒ - FCC Part 15.249 (per ANSI C63.4)
 - ☐ - Class A
 - ☐ - Class B
 - ☒ - Certification
 - ☐ - Verification
 - ☐ - Declaration of Conformity
- ☐ - FCC Part 18

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Environmental conditions during testing:

| | LAB | OATS |
|-----------------------|-------|---------|
| Temperature: * | _____ | : _____ |
| Relative Humidity: ** | _____ | : _____ |

* The ambient temperature during the testing was within the range of (50° - 104° F) unless indicted above.
** The humidity levels during the testing was within the range of (10% - 90%) relative humidity unless indicated above.

Power supply system : _____ Volts _____ Hz SINGLE phase
*Internal 3.0 VDC battery

Sign Explanations:

- ☐ - not applicable
- ☒ - applicable

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Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The *CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE)* measurements were performed at the following test location:

☒ - Test not applicable

- ☐ - Darby Test Site (Open Area Test Site)
☐ - Darby Laboratory

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|--------------------------|-----------------|--------------------|--------------------|----------------|
| <input type="checkbox"/> | 8028-50 | Solar | 50 Ω LISN | 829012, 829022 |
| <input type="checkbox"/> | 8012 | Solar | 50 Ω LISN | 924840 |
| <input type="checkbox"/> | EMC-30 | Electro-Metrics | EMI Receiver | 191 |
| <input type="checkbox"/> | 8566B | Hewlett-Packard | Spectrum Analyzer | 2421A00526 |
| <input type="checkbox"/> | 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00209 |
| <input type="checkbox"/> | 85662A | Hewlett Packard | Analyzer Display | 2403A07352 |
| <input type="checkbox"/> | 8028-50 | Solar | 50 Ω LISN | 903725, 903726 |
| <input type="checkbox"/> | FCC-TLISN-T4-02 | Fisher Custom Com. | Telecom ISN | 20454 |
| <input type="checkbox"/> | FCC-TLISN-T8-02 | Fisher Custom Com. | Telecom ISN | 20452 |
| <input type="checkbox"/> | LI-125 | Com-Power | 50 Ω LISN | 191080/191081 |

Emissions Test Conditions: RADIATED EMISSIONS (Magnetic Field)

The *RADIATED EMISSIONS (MAGNETIC FIELD)* measurements were performed at the following test location:

- ☒ - Darby Test Site (Open Area Test Site)
☐ -
☐ -

at a test distance of :

- ☒ - 3 meters
☐ - 30 meters

☐ - Test not applicable

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|-------------------------------------|--------------|------------------|----------------------|---------------|
| <input type="checkbox"/> | 3148 | EMCO | Log Periodic Antenna | 00044783 |
| <input type="checkbox"/> | BIA-25 | Electro-Metrics | Biconical Antenna | 4283 |
| <input checked="" type="checkbox"/> | 8566B | Hewlett-Packard | Spectrum Analyzer | 2532A02418 |
| <input checked="" type="checkbox"/> | 85662A | Hewlett-Packard | Analyzer Display | 2403A07352 |
| <input checked="" type="checkbox"/> | 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00358 |
| <input checked="" type="checkbox"/> | ALR-30M | Electro-Metrics | Loop Antenna | 824 |
| <input checked="" type="checkbox"/> | 8447D | Hewlett Packard | Preamplifier | 2944A06901 |
| <input type="checkbox"/> | EMC-30 | Electro-Metrics | EMI Receiver | 191 |
| <input type="checkbox"/> | ALA-130/A | Antenna Research | Loop Antenna | 106 |

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The *RADIATED EMISSIONS (ELECTRIC FIELD)* measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location :

☐ - Test not applicable

- - Darby Site (Open Area Test Site)
- ☐ - Darby Lab
- ☐ -

at a test distance of :

- - 3 meters
- ☐ - 10 meters
- ☐ - 30 meters

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|----------------------------|--------------|-----------------|-------------------------|---------------|
| <input type="checkbox"/> - | HLP 3003C | EMC Automation | Hybrid Periodic Antenna | 017501 |
| ■ - | 8447D | Hewlett-Packard | Preamplifier (26dB) | 2944A06901 |
| ■ - | 8566B | Hewlett-Packard | Spectrum Analyzer | 2532A02418 |
| ■ - | 85662A | Hewlett-Packard | Analyzer Display | 2403A07352 |
| ■ - | 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00358 |
| <input type="checkbox"/> - | BIA 25 | Electro-Metrics | Biconical Antenna | 4283 |
| <input type="checkbox"/> - | EMC-30 | Electro-Metrics | EMI Receiver | 191 |
| <input type="checkbox"/> - | 8566B | Hewlett Packard | Spectrum Analyzer | 2532A02418 |
| <input type="checkbox"/> - | 85650A | Hewlett Packard | Quasi-Peak Adapter | 2043A00209 |
| <input type="checkbox"/> - | 85662A | Hewlett Packard | Analyzer Display | 2403A06604 |
| <input type="checkbox"/> - | LPA30 | Electro-Metrics | Log Periodic | 2280 |
| ■ - | 3104C | Emco | Biconical Antenna | 00075927 |
| ■ - | 3148 | ETS Lindgren | Log Periodic Antenna | 75741 |

Emissions Test Conditions): DISTURBANCE POWER

The *DISTURBANCE POWER* measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location :

■ - Test not applicable

- ☐ - Darby Lab
- ☐ -

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|----------------------------|--------------|-----------------|--------------------|---------------|
| <input type="checkbox"/> - | MDS-21 | Rhode&Schwarz | Absorbing Clamp | 8608447020 |
| <input type="checkbox"/> - | 8566B | Hewlett-Packard | Spectrum Analyzer | 2532A02418 |
| <input type="checkbox"/> - | 85662A | Hewlett-Packard | Analyzer Display | 2403A07352 |
| <input type="checkbox"/> - | 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00209 |
| <input type="checkbox"/> - | 8447D | Hewlett-Packard | Amplifier (26 dB) | 2944A06901 |
| <input type="checkbox"/> - | EMC-30 | Electro-Metrics | EMI Receiver | 191 |

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The **EQUIVALENT RADIATED EMISSIONS** measurements in the frequency range 1 GHz - 24 GHz were performed in a horizontal and vertical polarization at the following test location :

■ - Darby Test Site (Open Area Test Site)

- ☐ -
- ☐ -
- ☐ -

at a test distance of:

- - 1 meters
- - 3 meters
- ☐ - 10 meters

☐ - **Test not applicable**

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|-----|--------------|-------------------|-------------------------|---------------|
| ■ - | 8566B | Hewlett-Packard | Spectrum Analyzer | 2532A02418 |
| ■ - | 85662A | Hewlett-Packard | Analyzer Display | 2403A07352 |
| ■ - | 85650A | Hewlett-Packard | Quasi-Peak Adapter | 2043A00358 |
| ■ - | 8449B | Hewlett-Packard | Preamplifier | 3008A00320 |
| ■ - | 3115 | Electro-Mechanics | Double Ridge Guide Horn | 3810 |

Emissions Test Conditions): CONDUCTED EMISSIONS - TELECOMMUNICATIONS PORT measurements were performed in the frequency range 0.15 MHz - 30 MHz at the following test location :

■ - **Test not applicable**

- ☐ - Darby Lab
- ☐ -

Test equipment used :

| | Model Number | Manufacturer | Description | Serial Number |
|----------------------------|-----------------|--------------------|--------------|---------------|
| <input type="checkbox"/> - | EMC-30 | Electro-Metrics | EMI Receiver | 191 |
| <input type="checkbox"/> - | FCC-TLISN-T8-02 | Fischer Custom Com | T-LISN | 20452 |
| <input type="checkbox"/> - | FCC-TLISN-T4-02 | Fischer Custom Com | T_LISN | 20454 |
| <input type="checkbox"/> - | | | | |
| <input type="checkbox"/> - | | | | |

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Equipment Under Test (EUT) Test Operation Mode - Emission tests :

The device under test was operated under the following conditions during emissions testing:

- ☐ - Standby
- ☐ - Test program (H - Pattern)
- ☐ - Test program (color bar)
- ☒ - Test program (customer specific)
- ☐ - Practice operation
- ☐ - Normal Operating Mode
- ☐ -

Configuration of the device under test:

- ☐ - See System Under Test Information in Appendix B
- ☒ - Self standing - no peripherals or I/O

Rationale for EUT setup / configuration:

ANSI C63.4:2003

Emission Test Results:

Conducted emissions 150 kHz - 30 MHz

The requirements are ☒ - NA ☐ - MET ☐ - NOT MET
Minimum limit margin dB at MHz
MU: 5.3 dB

Radiated emissions (magnetic field) 10 kHz - 30 MHz

The requirements are ☐ - NA ☒ - MET ☐ - NOT MET
Minimum limit margin > 20 dB at MHz
MU: NA

Radiated emissions (electric field) 30 MHz - 1000 MHz

The requirements are ☐ - NA ☒ - MET ☐ - NOT MET
Minimum limit margin 11.1 dB at 48.0 MHz
MU: 5.2 dB

Interference Power at the mains and interface cables 30 MHz - 300 MHz

The requirements are ☒ - NA ☐ - MET ☐ - NOT MET
Minimum limit margin dB at MHz
MU: NA

Radiated emissions 1 GHz - 24 GHz

The requirements are ☐ - NA ☒ - MET ☐ - NOT MET
Minimum limit margin 16.1 dB at 4.884 GHz
MU: 4.9 dB

Emissions Test Conditions): CONDUCTED EMISSIONS - TELECOMMUNICATIONS PORT 0.15 to 30 MHz

The requirements are ☒ - NA ☐ - MET ☐ - NOT MET
Minimum limit margin dB at MHz
MU: NA

MU = Measurement Uncertainty

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GENERAL REMARKS:

Conducted emissions - Exploratory measurements are used to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. For each mode of operation and for each ac power current-carrying conductor, cable manipulation is performed within the range of likely configurations. For this measurement or series of measurements, the frequency spectrum of interest is monitored looking for the emission that has the highest amplitude relative to the limit. Once that emission is found for each current-carrying conductor of each power cord associated with the EUT (but not the cords associated with non-EUT equipment in the overall system), the one and arrangement and mode of operation that produces the emission closest to the limit across all the measured conductors is recorded. Software used is Electro metrics OS-30-CAT ver 1.10

Radiated emissions - The equipment under test is oriented at (0) degrees azimuth with respect to the measuring antenna. The antenna is placed in the vertical polarity and the software performs an automated set of measurements across the frequency range of interest. When complete, a database of all signals labeled "suspects" is displayed and the test engineer manually investigates any signal that is within (15) dB of the limit. Those determined to be from the EUT are placed on a separate database labeled "finals" and those not from the EUT are placed in the ambient database. The EUT is then rotated (90) degrees and the process is repeated. Upon completion of (4) scans, the antenna polarity is changed to horizontal, the EUT orientation is set to (45) degrees and the process is repeated (4) additional times. After every scan, the final list is completely re-measured and updated for amplitude and polarity if higher in amplitude.

Once all (8) scans are complete, the highest (6) signals are re-measured by maximizing the amplitude with cable manipulation, antenna height and EUT azimuth. The final (6) six signals are included in the test report. Software used is HP 85870A Opt655/Rev A.02.01.

We investigated the frequency range of (10) kHz to (24) GHz. Three orthogonal positions were investigated and the worst position was used for collection of data.

SUMMARY:

The requirements according to the technical regulations are

- - met
- - **not** met.

The device under test does

- - fulfill the general approval requirements mentioned on page 3.
- - **not** fulfill the general approval requirements mentioned on page 3.

Testing Start Date 05 Mar 2015

Testing End Date: 06 Mar 2015

- PRODUCT SAFETY ENGINEERING INC -

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Test-setup photo(s):
Conducted emission 150 kHz - 30 MHz

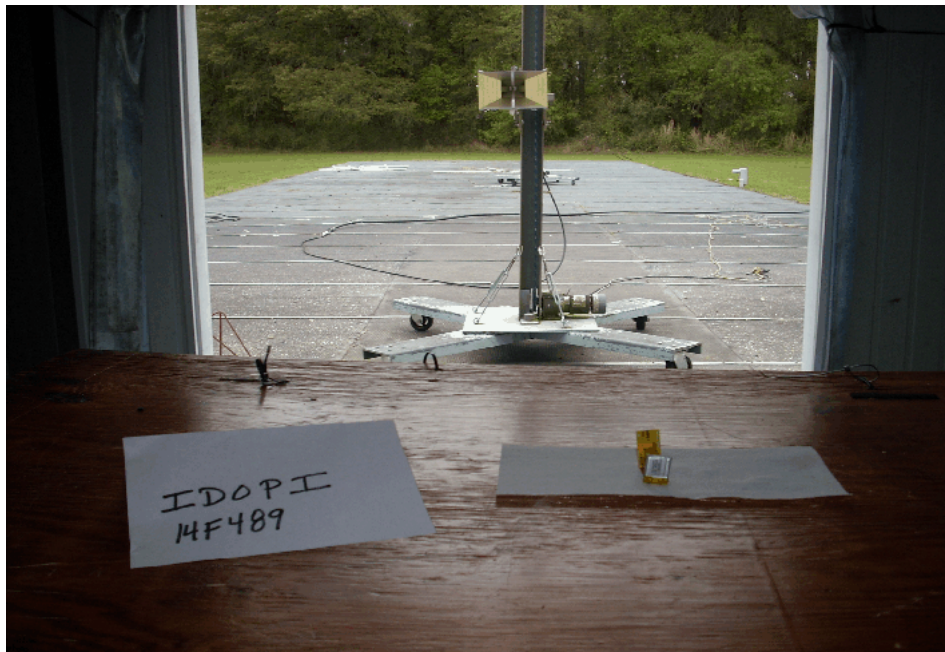
NA

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Test-setup photo(s):

Radiated emission 30 MHz - 1000 MHz



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APPENDIX

A

Test Equipment Calibration Information & Test Data Sheets

| | | | | |
|---|---|------------------------------------|----------------------|------------------|
| | | | | |
| | TEST EQUIPMENT CALIBRATION INFORMATION | | | |
| | | | | |
| | | | | |
| Manufacturer | Model | Description | Serial Number | Cal Due * |
| | | | | |
| Hewlett Packard | 8566B | Spectrum Analyzer | 2421A00526 | |
| Hewlett Packard | 85662A | Display | 2151A03667 | |
| Hewlett Packard | 85650A | Quasi-peak Adapter | 2043A00209 | |
| Hewlett Packard | 8566B | Spectrum Analyzer | 2532A02418 | 11/5/2015 |
| Hewlett Packard | 85662A | Display | 2403A07352 | 11/5/2015 |
| Hewlett Packard | 85650A | Quasi-peak Adapter | 2043A00358 | 11/5/2015 |
| Hewlett Packard | 8447D | Preamplifier 0.1 - 1,000 MHz | 2944A06832 | |
| Hewlett Packard | 8447D | Preamplifier 0.1 - 1,000 MHz | 2944A06901 | 12/2/2015 |
| Hewlett Packard | 8449B | Preamplifier 1 - 26.5 GHz | 3008A00320 | 6/6/2015 |
| Hewlett Packard | E7402A | Portable Spectrum Analyzer | US40240204 | |
| ETS Lindgren | 3148 | Log Periodic Antenna | 75741 | ** 2/7/2016 |
| Electro-Metrics | BIA-30 | Biconical Antenna | 3852 | |
| EMCO | 3104C | Biconical Antenna | 75927 | ** 5/14/2016 |
| Electro-Metrics | ALR30M | Magnetic Loop Antenna | 824 | ** 7/15/2015 |
| Electro-Metrics | EMC-30 | EMI Receiver | 191 | |
| Electro-Metrics | 3115 | Double Ridge Guide Antenna | 3810 | ** 7/16/2015 |
| Solar | 8028 | LISN | 829012/809022 | |
| Com-Power | LI-125 | LISN | 191080/191081 | |
| Schwartzbeck | MDS-21 | Absorbing Clamp | 2581 | |
| Fisher Custom | FCC-TLISN-T4-02 | T LISN | 20454 | |
| Fisher Custom | FCC-TLISN-T8-02 | Fisher Custom | 20452 | |
| ATM | 42-441-6 | Standard Gain Horn Antenna | E531612-01 | |
| Electro-Metrics | 3117 | Double Ridge Guide Antenna | 109296 | |
| Solar | 7334-1 | Loop Sensor | 32317 | |
| Sun Systems | EC127 | Environmental Chamber | EC0154 | |
| Fluke | 52 | Digital Thermometer | 4475388 | |
| Hewlett Packard | 3585A | Spectrum Analyzer | 1750A01006 | |
| | | * Cal Due Date Format = MM/DD/YYYY | | |
| | | | | |
| All equipment was calibrated one year prior to the cal due date listed unless otherwise indicated | | | | |
| ** These devices are on a (2) year calibration cycle | | | | |

PRODUCT EMISSIONS

PSE OPEN AREA TEST SITE

Data File: 14F489 FCC-B03M TAG 06MARCH2015

| No | EMISSION | SPEC | MEASUREMENTS | | | SITE | | | CORR | COMMENTS |
|----|------------------|-----------------|--------------|------------|------|------|-----------|------------|--------------|----------|
| | FREQUENCY MHz | LIMIT dBuV/m | ABS | dLIM dB | MODE | POL | HGT cm | AZM deg | FACTOR dB | |
| 1 | 32.532 | 40.0 | 27.1 | -12.9 | PK | V | 125 | 180 | -18.3 | |
| 2 | 48.06 | 40.0 | 28.9 | -11.1 | PK | V | 100 | 225 | -16.9 | |
| 3 | 64.000 | 40.0 | 27.8 | -12.2 | PK | V | 100 | 225 | -20. | |
| 4 | 80.000 | 40.0 | 28.2 | -11.8 | PK | V | 100 | 180 | -21.9 | |
| 5 | 96.001 | 43.5 | 29.3 | -14.2 | PK | V | 100 | 90 | -17.4 | |
| 6 | 112.003 | 43.5 | 29.6 | -13.9 | PK | V | 100 | 135 | -15.6 | |
| 7 | 125.009 | 43.5 | 24.3 | -19.2 | PK | V | 100 | 90 | -15.8 | |
| 8 | 160.000 | 43.5 | 19.5 | -24.0 | PK | V | 100 | 135 | -12.6 | |
| 9 | 200.000 | 43.5 | 29.3 | -14.2 | PK | V | 100 | 135 | -11.2 | |
| 10 | 224.002 | 46.0 | 23.4 | -22.6 | PK | H | 250 | 225 | -15.5 | |
| 11 | 244.194 | 46.0 | 22.8 | -23.2 | PK | H | 300 | 135 | -15. | |
| 12 | 349.986 | 46.0 | 27.1 | -18.9 | PK | V | 100 | 270 | -12.3 | |
| 13 | 442.306 | 46.0 | 27.4 | -18.6 | PK | H | 300 | 135 | -11.1 | |

| Transmitters are investigated at 3 orthogonal positions, Levels are Highest with Tx in Vertical upright position. | | | | | | | | | | |
|--|------------------------|----------|------|----------------|----------|---------------|-------|----------------|--------------|-------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| MHz | | | | | | | | | | |
| Fundamental and 2nd Harmonic are Measured at 3 Meter Distance | | | | | | | | | | |
| Freq. | Peak Measured @ 3 m | Polarity | ACF | System Gain | Adj Peak | Peak Limit | Delta | *Average Level | AVG Limit | Delta |
| MHz | dBuV | | dB/m | dB | dBuV/m | dBuV/m | dB | dBuV/m | dBuV/m | dB |
| 2442 | 87.1 | V | 28.5 | 22 | 93.6 | 114 | -20.4 | 73.6 | 94 | -20.4 |
| 4884 | 38.8 | V | 33.1 | 18 | 53.9 | 74 | -20.1 | 37.9 | 54 | -16.1 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 3th Harmonic and Higher Measured at 1 Meter Distance , Low Loss Set-Up | | | | | | | | | | |
| Freq. | Peak Measured @ 1 m | | ACF | System Gain | Adj Peak | Peak Limit | Delta | *Average Level | AVG Limit | Delta |
| MHz | dBuV | | dB/m | dB | dBuV/m | dBuV/m | dB | dBuV/m | dBuV/m | dB |
| 7326 | 43.4 | V | 36.6 | 28 | 52 | 83.5 | -31.5 | 36 | 63.5 | -27.5 |
| 9768 | 44 | V | 37.7 | 27 | 54.7 | 83.5 | -28.8 | 38.7 | 63.5 | -24.8 |
| 12210 | 32 | V | 39.2 | 20 | 51.2 | 83.5 | -32.3 | 35.2 | 63.5 | -28.3 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| **There are no Emissions to Measure above 14 GHz within 20 dB of the Limit, (Harmonics #6 thru #10) | | | | | | | | | | |
| 3 Meter Limit changed to 1 Meter Limit using $20 \log(3/1) = 9.5$, Therefore Limit at 1 Meter is adjusted +9.5dB Higher | | | | | | | | | | |

APPENDIX

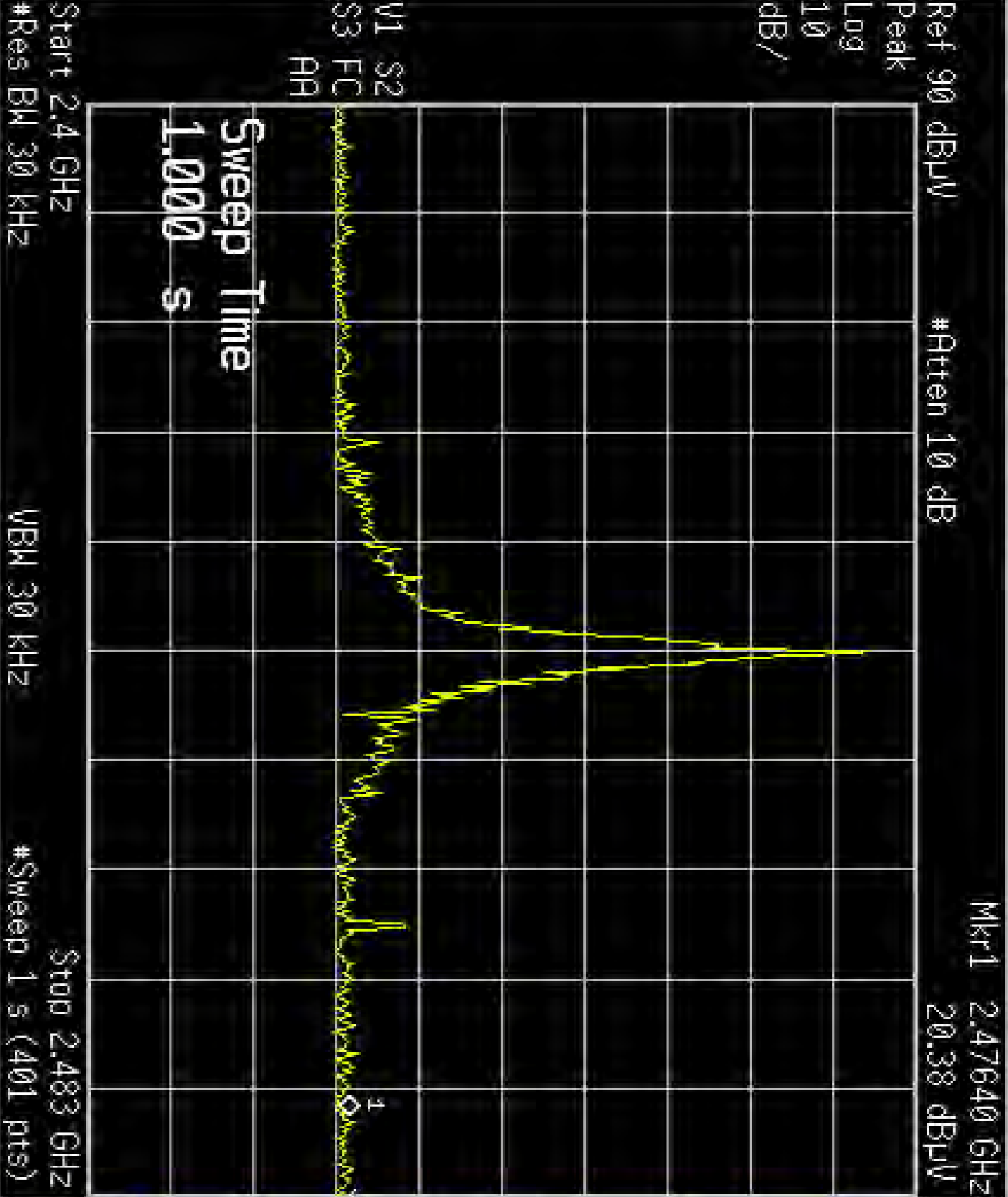
B

System Under Test Description

APPENDIX

C

Bandedge Plots



Trace/View

1 2 3 Trace

Clear Write

Max Hold

Min Hold

View

Blank

More 1 of 2