***FCC 15.209***
***TEST REPORT***

*for*

# 58 kHz ACE System

# Model: UXT-AS-ACE

Prepared for

AMERICAN SECURITY SPOL. S R.O.
K VILKAM 1633
107 00 PRAGUE 10 - DUBEC, CZECH REPUBLIC

Prepared by:_____

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DATE: AUGUST 19, 2013

| | REPORT BODY | APPENDICES | | | | | TOTAL |
|---|---|---|---|---|---|---|---|
| | | ***A*** | ***B*** | ***C*** | ***D*** | ***E*** | |
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# GENERAL REPORT SUMMARY

Compatible Electronics Inc. generates this emissions test report, which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST or any other agency of the U.S. Government.

| | |
|---|---|
| Device Tested: | 58 kHz ACE System<br>Model: UXT-AS-ACE<br>S/N: N/A |
| Product Description: | See Expository Statement |
| Modifications: | The EUT was not modified during the testing. |
| Customer: | American Security spol. s r.o.<br>K Vilkam 1633<br>107 00 Prague 10 - Dubec, Czech Republic |
| Test Date(s): | June 24, 25, and 27, 2014 |
| Test Specifications: | EMI requirements<br>CFR Title 47, Part 15 Subpart B; and Subpart C, Sections 15.205 and 15.209 |
| Test Procedure: | ANSI C63.4 |
| Test Deviations: | The test procedure was not deviated from during the testing. |

# SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION | RESULTS |
|---|---|---|
| 1 | Conducted RF Emissions<br>150 kHz to 30 MHz | Complies with the **Class A** limits of **CFR** Title 47, Part 15, Subpart B; and Subpart C Section 15.207. |
| 2 | Radiated RF Emissions<br>9 kHz – 2000 MHz | Complies with the **Class A** limits of **CFR** Title 47, Part 15, Subpart B; and Subpart C Sections 15.205 and 15.209. |

## 1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the 58 kHz ACE System, Model: UXT-AS-ACE. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class A** specification limits defined by CFR Title 47, Part 15, Subpart B for the digital portion; and Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

Note: The receiver portion was not performed because it is exempt from the technical provisions in CFR Title 47, Part 15, Subpart B per CFR Title 47, Part 15, Subpart B, section 15.101 (b).

# 2. ADMINISTRATIVE DATA

## 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

## 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

## 2.3 Cognizant Personnel

American Security spol. s r.o.

| | |
|---|---|
| Clint Meyer | Technical Manager |

Compatible Electronics Inc.

| | |
|---|---|
| Kyle Fujimoto | Test Engineer |
| James Ross | Test Engineer |

## 2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

## 2.5 Disposition of the Test Sample

The test sample was returned prior to the date of this report.

## 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

| | |
|---|---|
| FCC | Federal Communications Commission |
| RF | Radio Frequency |
| EMI | Electromagnetic Interference |
| EUT | Equipment Under Test |
| P/N | Part Number |
| S/N | Serial Number |
| ITE | Information Technology Equipment |
| LISN | Line Impedance Stabilization Network |
| NVLAP | National Voluntary Laboratory Accreditation Program |
| CFR | Code of Federal Regulations |
| N/A | Not Applicable |
| Ltd. | Limited |
| Inc. | Incorporated |
| IR | Infrared |

## 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emissions Test Report.

| SPEC | TITLE |
|---|---|
| CFR Title 47, Part 15 | FCC Rules – Radio frequency devices (including digital devices) |
| ANSI C63.4: 2009 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

# 4. DESCRIPTION OF TEST CONFIGURATION

## 4.1 Description of Test Configuration – Emissions

The 58 kHz ACE System, Model: UXT-AS-ACE (EUT) was configured as follows:

| CONTROLLER BOX | | |
|---|---|---|
| **Port Name** | **Connected To** | **Comments** |
| ANT1_OUT | Antenna | Connected to the wire antenna mounted to the EUT |
| M_LOOP1 | Antenna | Connected to the wire antenna mounted to the EUT |
| ANT2_OUT | Antenna | Connected to the wire antenna mounted to the EUT |
| M_LOOP2 | Antenna | Connected to the wire antenna mounted to the EUT |
| RX1 | Accessory Receiver PCB #1 | The EUT receives from RX PCB #1 in both modes. |
| RX2 | Accessory Receiver PCB #2 | The EUT receives from RX PCB #2 in both modes. |
| Relay 1 | Unterminated | 1-meter unterminated cable connected in both modes. |
| Relay 2 | Unterminated | 1-meter unterminated cable connected in both modes. |
| SOUND | Speaker | Connected to a speaker mounted on the EUT via a 20-centimeter cable |
| SYNC IN | Accessory Pedestal | The Accessory Controller provides a signal for the Acessory Pedestal in Sync mode.<br><br>Unterminated in Stand Alone mode. |
| SYNC OUT | Accessory Pedestal | The Accessory Controller provides a signal for the Acessory Pedestal in Sync mode.<br><br>Unterminated in Stand Alone mode. |
| PC Port | E-comm | Accessory used to conenct the EUT to a laptop via a router so that the power on the EUT can be controlled.. |

## Description of Test Configuration – Emissions (continued)

The EUT was tested in both stand alone and sync configurations.

The controller box was connected to an E-comm vits its PC port.

The E-comm was also connected to a router and AC Adapter via its ethernet and power ports, respectively.

The entire system was continuously transmitting and receiving at 58 kHz. The EUT was tested in both its minimum power and maximum power.

Note #1: The digital portion emissions were tested to the **Class A** limits specification limits defined by CFR Title 47, Part 15, Subpart B.

Note #2: For testing the Rx board only for conducted emissions. The EUT's SYNC port was not terminated.

Note #3: The EUT's SYNC IN and SYNC OUT ports were not terminated for the stand alone configuration.

Note #4: The laptop was used to control the power of the EUT via the router and E-comm connected to the PC port of the EUT.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The final emissions data was taken in this mode of operation and any cables were maximized. All initial investigations were performed with the measurement receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

### 4.1.1 Cable Construction and Termination

**Cable 1** This is a 29-meter unshielded cable connecting the E-comm to the router. The cable has an RJ-45 connector at each end.

**Cable 2** This is a 1-meter unshielded cable connecting the E-comm to the EUT. The cable has an RJ-11 connector at each end.

**Cable 3** **(For Radiated Emissions Only)**
This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #1. The cable has an RJ-45 connector at each end.

**Cable 4** This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #2. The cable has an RJ-45 connector at each end.

**Cable 5** This is a 1.25-meter unshielded, unterminated cable connecting the controller's Relay #1 port (EUT). The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 40-centimeters.

**Cable 6** This is a 1.25-meter unshielded, unterminated cable connecting the controller's Relay #2 port (EUT). The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 40-centimeters.

**Cable 7** This is a 20-centimeter unshielded cable connecting the sound port on the EUT to a speaker mounted onto the EUT. The cable has a 2-pin terminal block at the EUT end and is hard wired into the speaker.

**Cable 8** This is a 20-centimeter unshielded cable connecting the ANT1_OUT port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

**Cable 9** This is a 20-centimeter unshielded cable connecting the M_LOOP1 port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

**Cable 10** This is a 20-centimeter unshielded cable connecting the ANT2_OUT port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

**Cable 11** This is a 20-centimeter unshielded cable connecting the M_LOOP2 port on the EUT to the antenna. The cable has a 2-pin terminal block at the EUT end and is hard wired into the antenna.

**Cable 12** **(Sync Mode Only)**
This is a 4-meter unshielded cable connecting the EUT's EXT Sync output to the accessory UXT-AS-ACE. The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 2-meters.

**Cable 13** **(Sync Mode Only)**
This is a 4-meter unshielded cable connecting the EUT's EXT Sync input to the accessory UXT-AS-ACE. The cable has a 2-pin terminal block connector at the controller end. The cable was bundled to a length of 2-meters.

## Cable Construction and Termination (Continued)

**Cable 14** This is a 2-meter unshileded cable connecting the E-comm to the power supply. The cable has a 1/8 inch power connector at the E-comm end and is hard wired into the power supply.

**Cable 15** This is a 2-meter unshileded cable connecting the router to the power supply. The cable has a 1/8 inch power connector at the router end and is hard wired into the power supply.

**Cable 16** This is a 6-meter unshielded cable connecting the router to the laptop. The cable has an RJ-45 connector at each end.

**Cable 17** **(For Conducted Emissions Only)**
This is a 3-meter unshielded cable connecting the EUT to the Receive PCB #1. The cable has an RJ-45 connector at each end. The cable was bundled to a length of 2-meters. The Receiver PCB was mounted to an accessory pedestal.

# 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

## 5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|---|---|---|---|---|
| 58 kHz ACE SYSTEM (EUT) | AMERICAN SECURITY SPOL. S R.O. | UXT-AS-ACE | N/A | UXT-AS-ACE |
| E-COMM | AMERICAN SECURITY SPOL. S R.O. | D-ECOM | N/A | N/A |
| E-COMM POWER SUPPLY | STUNTRONICS | 3A-066WPI2 | N/A | N/A |
| CONTROLLER POWER SUPPLY | TRONIC | 1300645 | N/A | N/A |
| ROUTER | D-LINK | DI-604 | B25I159011999 | N/A |
| ACCESSORY PEDESTAL | AMERICAN SECURITY SPOL. S R.O. | UXT-AS-ACE | N/A | UXT-AS-ACE |
| RECEIVER BOARD PCB #1 | AMERICAN SECURITY SPOL. S R.O. | MS-RX | 273289 | N/A |
| RECEIVER BOARD PCB #2 | AMERICAN SECURITY SPOL. S R.O. | MS-RX | N/A | N/A |
| LAPTOP | LENOVO | Y510P | N/A | N/A |
| ACCESSORY CONTROLLER | AMERICAN SECURITY SPOL. S R.O. | UXT-AS-ACE | N/A | UXT-AS-ACE |

## 5.2 Emissions Test Equipment

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. CYCLE |
|---|---|---|---|---|---|
| **GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS** | | | | | |
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08784 | May 20, 2014 | 1 Year |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 2648A14530 | May 20, 2014 | 1 Year |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2811A01363 | May 20, 2014 | 1 Year |
| Monitor | Hewlett Packard | D5258A | TW74500641 | N/A | N/A |
| Computer | Hewlett Packard | 4530 | US91912319 | N/A | N/A |
| **RF RADIATED EMISSIONS TEST EQUIPMENT** | | | | | |
| Compatible Electronics Radiated Test | Compatible Electronics | 2011 | N/A | N/A | N/A |
| CombiLog Antenna | Com-Power | AC-220 | 61027 | May 20, 2014 | 1 Year |
| Loop Antenna | Com-Power | AL-130 | 17089 | January 29, 2013 | 2 Year |
| Preamplifier | Com-Power | PA-103 | 1582 | December 30, 2013 | 1 Year |
| Horn Antenna | Com-Power | AH-118 | 071175 | February 26, 2014 | 2 Year |
| Preamplifier | Com-Power | PA-118 | 181656 | January 13, 2014 | 1 Year |
| Turntable | Com-Power | TT-100 | N/A | N/A | N/A |
| Antenna-Mast | Com-Power | AM-100 | N/A | N/A | N/A |
| **RF CONDUCTED EMISSIONS TEST EQUIPMENT** | | | | | |
| ShieldRoom Test | Compatible Electronics | 11CD | N/A | N/A | N/A |
| LISN | Com-Power | LI-215 | 12082 | June 12, 2014 | 1 Year |
| LISN | Com-Power | LI-215 | 12090 | June 12, 2014 | 1 Year |
| Transient Limiter | Com-Power | 252A910 | 1 | October 8, 2013 | 1 Year |
| **VARIATION OF THE INPUT POWER TEST EQUIPMENT** | | | | | |
| Variable Auto Transformer | Staco Energy Products | 3PN1010 | N/A | N/A | N/A |
| Multimeter | Wavetek | 87 | 40209875 | May 20, 2014 | 1 Year |

# 6. TEST SITE DESCRIPTION

## 6.1 Test Facility Description

Please refer to section 2.1 and 7.1.2 of this report for emissions test location.

## 6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 0.8 meter non-conductive surface above the ground plane.

The EUT was not grounded.

## 6.3 Facility Environmental Characteristics

When applicable refer to the data sheets in Appendix E for the relative humidity, air temperature, and barometric pressure.

# 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

## 7.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Note: Due to the fact the transmitter portion limits for conducted emissions (**FCC 15.207)** have a lower limit than the digital portion limits for conducted emissions (**Class A**), the data was taken with the lower limits (**FCC 15.207**).

**Test Results:**

The EUT complies with the **Class A (digital portion)** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.207 **(transmitter portion)** for conducted emissions.

## 7.2 Radiated Emissions (Spurious, Fundamental, and Harmonics) Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. A preamplifier was used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The measurement bandwidths and transducers used for the radiated emissions test were:

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER |
|---|---|---|
| 9 kHz to 150 kHz | 200 Hz | Active Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz | Active Loop Antenna |
| 30 MHz to 1000 MHz | 120 kHz | Combilog Antenna |
| 1000 MHz to 2000 MHz | 1 MHz | Horn Antenna |

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The loop antenna was also rotated in the horizontal and vertical axis in order to ensure accurate results. The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT (except for the fundamental) was tested at a 10-meter test distance to obtain the final test data.

The final qualification data sheets are located in Appendix E.

**Test Results:**

The EUT complies with the **Class A (digital portion)** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, sections 15.205, and 15.209 (transmitter portion) for radiated emissions.

## 7.3 Variation of the Input Power

The variation of the input power test was performed using the EMI Receiver. The EUT input power was varied between 85% and 115% of the nominal rated supply voltage. The carrier frequency was monitored for any change in amplitude.

**Test Results:**

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.31(e).

## 7.4 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS
58 kHz ACE System, Model: UXT-AS-ACE

| **Frequency MHz** | **Corrected Reading* dBuV** | **Specification Limit dBuV** | **Delta (Cor. Reading – Spec. Limit) dB** |
|---|---|---|---|
| 10.074 (Black Lead) Minimum Power Stand Alone | 46.74 | 50.00 | -3.26 |
| 0.157 (White Lead) Maximum Power Sync Mode | 52.55 | 55.64 | -3.30 |
| 0.152 (White Lead) Maximum Power Sync Mode | 52.26 | 55.86 | -3.60 |
| 0.154 (White Lead) Maximum Power Sync Mode | 52.05 | 55.78 | -3.72 |
| 0.162 (White Lead) Maximum Power Receiver Mode | 51.43 | 55.38 | -3.95 |
| 11.432 (Black Lead) Maximum Power Sync Mode Receiver Mode | 45.99 | 50.00 | -4.01 |

Notes:
* The complete emissions data is given in Appendix E of this report.

## 7.4 RF Emissions Test Results

Table 2.0 RADIATED EMISSION RESULTS
58 kHz ACE System, Model: UXT-AS-ACE

| **Frequency MHz** | **Corrected Reading* dBuV** | **Specification Limit dBuV** | **Delta (Cor. Reading – Spec. Limit) dB** |
|---|---|---|---|
| 150.045 (Vertical) Maximum Power Sync Mode | 42.22 (QP) | 43.52 | -1.30 |
| 0.582 (Horizontal) Maximum Power Sync Mode | 105.6 | 106.96 | -1.36 |
| 0.582 (Horizontal) Maximum Power Stand Alone | 49.2 | 51.39 | -2.1906 |
| 0.582 (Vertical) Maximum Power Stand Alone | 48.50 | 51.39 | -2.8906 |
| 0.582 (Horizontal) Minimum Power Sync Mode | 48.50 | 51.39 | -2.8906 |
| 150.039 (Vertical) Maximum Power Stand Alone | 40.50 | 43.52 | -3.02 |

Notes:

* The complete emissions data is given in Appendix E of this report.

## 8. CONCLUSIONS

The 58 kHz ACE System, Model: UXT-AS-ACE, as tested, meets all of the **Class A** specification limits defined in CFR Title 47, Part 15, Subpart B for the digital portion; and the limits defined in Subpart C, sections 15.205, 15.207, and 15.209 for the transmitter portion.

**APPENDIX A**

# *LABORATORY ACCREDITATIONS AND RECOGNITIONS*

# LABORATORY ACCREDITATIONS AND RECOGNITIONS

NVLAP LAB CODES 200063-0, 200528-0, 200527-0

For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

**NVLAP listing links**
**Agoura Division** / **Brea Division** / **Silverado/Lake Forest Division**

.Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."

**ANSI listing** CETCB

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).
**US/EU MRA list** NIST MRA site

Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for Taiwan/BSMI under the US/APEC (Asia-Pacific Economic Cooperation) Mutual Recognition Agreement (MRA).
**APEC MRA list** NIST MRA site

We are also listed for IT products by the following country/agency:

**VCCI Support member: Please visit http://www.vcci.jp/vcci_e/**

**FCC Listing, from FCC OET site**
FCC test lab search https://fjallfoss.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm

Compatible Electronics IC listing can be found at:
http://www.ic.gc.ca/eic/site/ic1.nsf/eng/home

**APPENDIX B**

# *MODIFICATIONS TO THE EUT*

# MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC 15.205, 15.207, FCC 15.209, or FCC **Class A** specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.

**APPENDIX C**

# *ADDITIONAL MODEL COVERED UNDER THIS REPORT*

# ADDITIONAL MODEL COVERED UNDER THIS REPORT

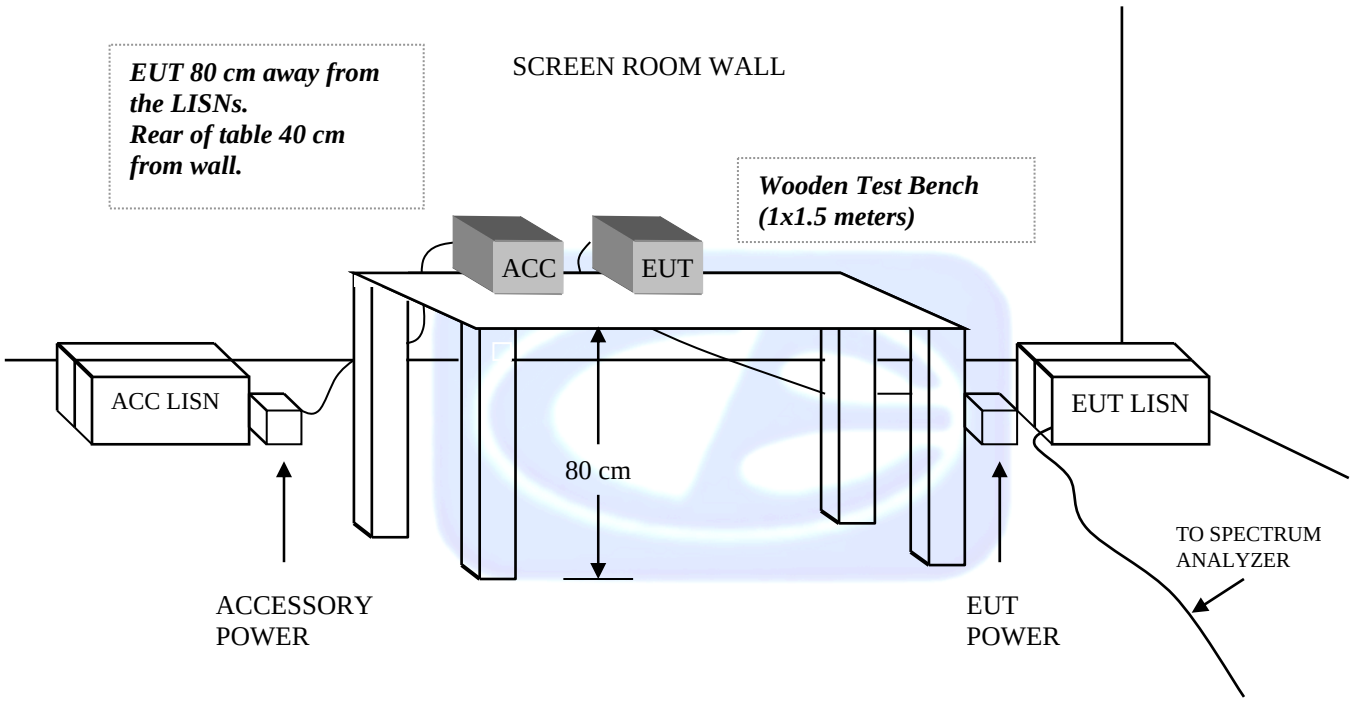
| | |
|---|---|
| USED FOR THE PRIMARY TEST | 58 kHz ACE System<br>Model: UXT-AS-ACE<br>S/N: N/A |

There were no additional Model covered under this report.

**APPENDIX D**

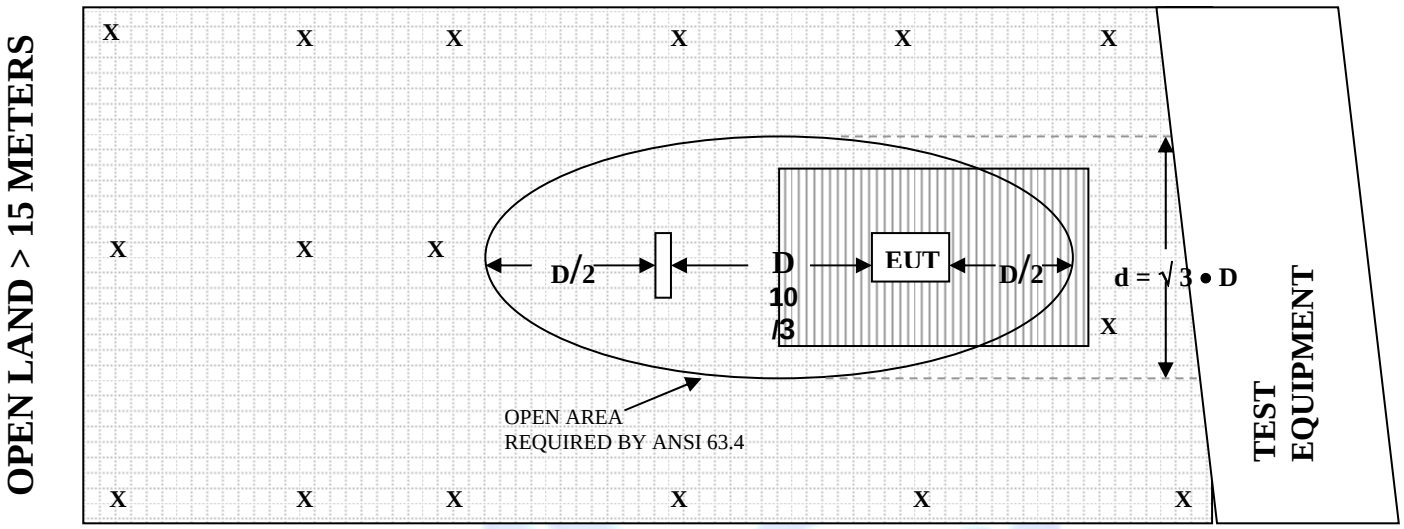
# *DIAGRAMS, CHARTS AND PHOTOS*

# *FIGURE 1: CONDUCTED EMISSIONS TEST SETUP*



# *FIGURE 2: PLOT MAP AND LAYOUT OF THE RADIATED TEST SITE*

**OPEN LAND > 15 METERS**




**OPEN LAND > 15 METERS**

| | |
|---|---|
| X = GROUND RODS | = GROUND SCREEN |
| D = TEST DISTANCE (meters) | = WOOD COVER |

# COM-POWER AC-220

# COMBILOG ANTENNA

# S/N: 61027

# CALIBRATION DATE: MAY 20, 2014

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|---|---|---|---|
| 30 | 21.50 | 200 | 14.50 |
| 35 | 22.00 | 250 | 16.80 |
| 40 | 22.60 | 300 | 18.60 |
| 45 | 21.20 | 350 | 16.30 |
| 50 | 18.70 | 400 | 20.70 |
| 60 | 18.40 | 450 | 21.00 |
| 70 | 13.70 | 500 | 22.70 |
| 80 | 10.30 | 550 | 21.70 |
| 90 | 12.50 | 600 | 22.80 |
| 100 | 12.90 | 650 | 23.20 |
| 120 | 15.70 | 700 | 24.20 |
| 125 | 15.80 | 750 | 25.50 |
| 140 | 14.50 | 800 | 25.90 |
| 150 | 14.40 | 850 | 26.60 |
| 160 | 14.50 | 900 | 26.70 |
| 175 | 15.30 | 950 | 27.90 |
| 180 | 14.70 | 1000 | 28.30 |

# COM-POWER AL-130

# LOOP ANTENNA

# S/N: 17089

# CALIBRATION DATE: JANUARY 29, 2013

| FREQUENCY (MHz) | MAGNETIC (dB/m) | ELECTRIC (dB/m) |
|---|---|---|
| 0.009 | -42.5 | 9 |
| 0.01 | -42.3 | 9.2 |
| 0.02 | -42.1 | 9.4 |
| 0.03 | -41.4 | 10.1 |
| 0.04 | -41.8 | 9.7 |
| 0.05 | -42.4 | 9.1 |
| 0.06 | -42.3 | 9.2 |
| 0.07 | -42.5 | 9 |
| 0.08 | -42.4 | 9.1 |
| 0.09 | -42.5 | 9 |
| 0.1 | -42.5 | 9 |
| 0.2 | -42.7 | 8.8 |
| 0.3 | -42.6 | 8.9 |
| 0.4 | -42.5 | 9 |
| 0.5 | -42.7 | 8.8 |
| 0.6 | -42.7 | 8.8 |
| 0.7 | -42.5 | 9 |
| 0.8 | -42.3 | 9.2 |
| 0.9 | -42.2 | 9.3 |
| 1 | -42.2 | 9.3 |
| 2 | -41.8 | 9.7 |
| 3 | -41.7 | 9.8 |
| 4 | -41.7 | 9.8 |
| 5 | -41.5 | 10 |
| 6 | -41.6 | 9.9 |
| 7 | -41.4 | 10.1 |
| 8 | -41 | 10.5 |
| 9 | -40.8 | 10.7 |
| 10 | -41.3 | 10.2 |
| 15 | -41.4 | 10.1 |
| 20 | -41.2 | 10.3 |
| 25 | -42.6 | 8.9 |
| 30 | -41.7 | 9.8 |

# COM-POWER PA-103

# PREAMPLIFIER

# S/N: 1582

# CALIBRATION DATE: DECEMBER 30, 2013

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|---|---|---|---|
| 30 | 32.60 | 300 | 32.40 |
| 40 | 32.70 | 350 | 32.00 |
| 50 | 32.50 | 400 | 32.20 |
| 60 | 32.50 | 450 | 32.00 |
| 70 | 32.50 | 500 | 32.00 |
| 80 | 32.40 | 550 | 31.90 |
| 90 | 32.50 | 600 | 31.80 |
| 100 | 32.40 | 650 | 31.80 |
| 125 | 32.40 | 700 | 31.70 |
| 150 | 32.30 | 750 | 31.60 |
| 175 | 32.30 | 800 | 31.70 |
| 200 | 32.30 | 850 | 31.50 |
| 225 | 31.60 | 900 | 31.00 |
| 250 | 32.40 | 950 | 31.30 |
| 275 | 32.30 | 1000 | 31.40 |

# COM POWER AH-118

# HORN ANTENNA

# S/N: 071175

# CALIBRATION DATE: FEBRUARY 26, 2014

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|---|---|---|---|
| 1.0 | 24.23 | 10.0 | 38.43 |
| 1.5 | 25.84 | 10.5 | 40.19 |
| 2.0 | 28.14 | 11.0 | 40.49 |
| 2.5 | 29.51 | 11.5 | 41.39 |
| 3.0 | 31.20 | 12.0 | 42.02 |
| 3.5 | 32.17 | 12.5 | 43.30 |
| 4.0 | 31.40 | 13.0 | 42.77 |
| 4.5 | 31.86 | 13.5 | 40.18 |
| 5.0 | 34.82 | 14.0 | 42.59 |
| 5.5 | 34.38 | 14.5 | 41.74 |
| 6.0 | 36.31 | 15.0 | 41.84 |
| 6.5 | 34.81 | 15.5 | 38.48 |
| 7.0 | 37.48 | 16.0 | 39.52 |
| 7.5 | 36.98 | 16.5 | 37.85 |
| 8.0 | 36.66 | 17.0 | 41.33 |
| 8.5 | 38.47 | 17.5 | 44.96 |
| 9.0 | 37.22 | 18.0 | 48.50 |
| 9.5 | 37.86 | | |

# COM-POWER PA-118

# PREAMPLIFIER

# S/N: 181656

# CALIBRATION DATE: JANUARY 13, 2014

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|---|---|---|---|
| 1.0 | 24.90 | 6.0 | 25.40 |
| 1.1 | 25.30 | 6.5 | 25.20 |
| 1.2 | 26.00 | 7.0 | 24.40 |
| 1.3 | 26.20 | 7.5 | 24.00 |
| 1.4 | 26.30 | 8.0 | 23.90 |
| 1.5 | 26.40 | 8.5 | 24.50 |
| 1.6 | 26.50 | 9.0 | 25.20 |
| 1.7 | 26.60 | 9.5 | 24.80 |
| 1.8 | 26.50 | 10.0 | 24.90 |
| 1.9 | 26.60 | 11.0 | 25.40 |
| 2.0 | 26.70 | 12.0 | 24.50 |
| 2.5 | 26.90 | 13.0 | 24.30 |
| 3.0 | 27.00 | 14.0 | 25.20 |
| 3.5 | 27.10 | 15.0 | 25.90 |
| 4.0 | 26.60 | 16.0 | 25.60 |
| 4.5 | 26.10 | 17.0 | 23.70 |
| 5.0 | 26.40 | 18.0 | 25.80 |
| 5.5 | 25.80 | | |

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – SYNC MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.209 – RADIATED EMISSIONS – BELOW 30 MHz – SYNC MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

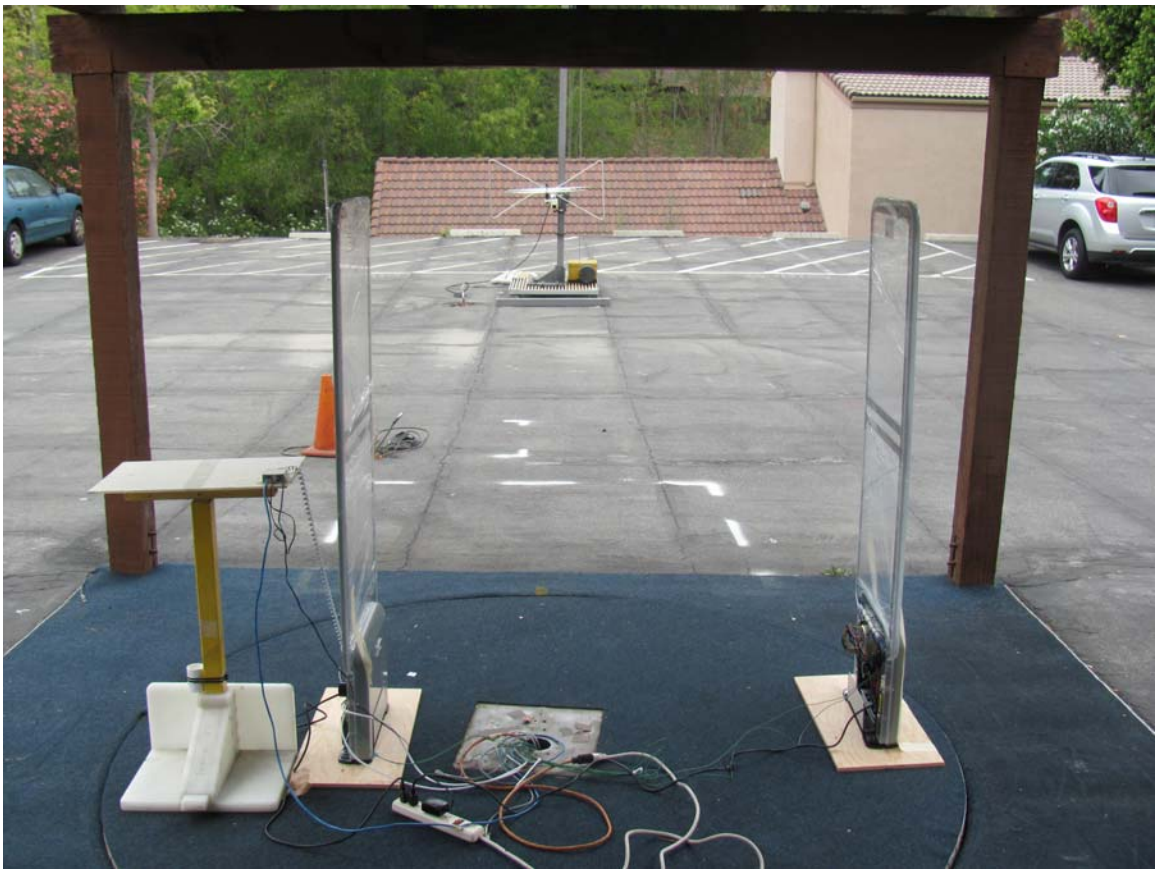
AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE System
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – SYNC MODE

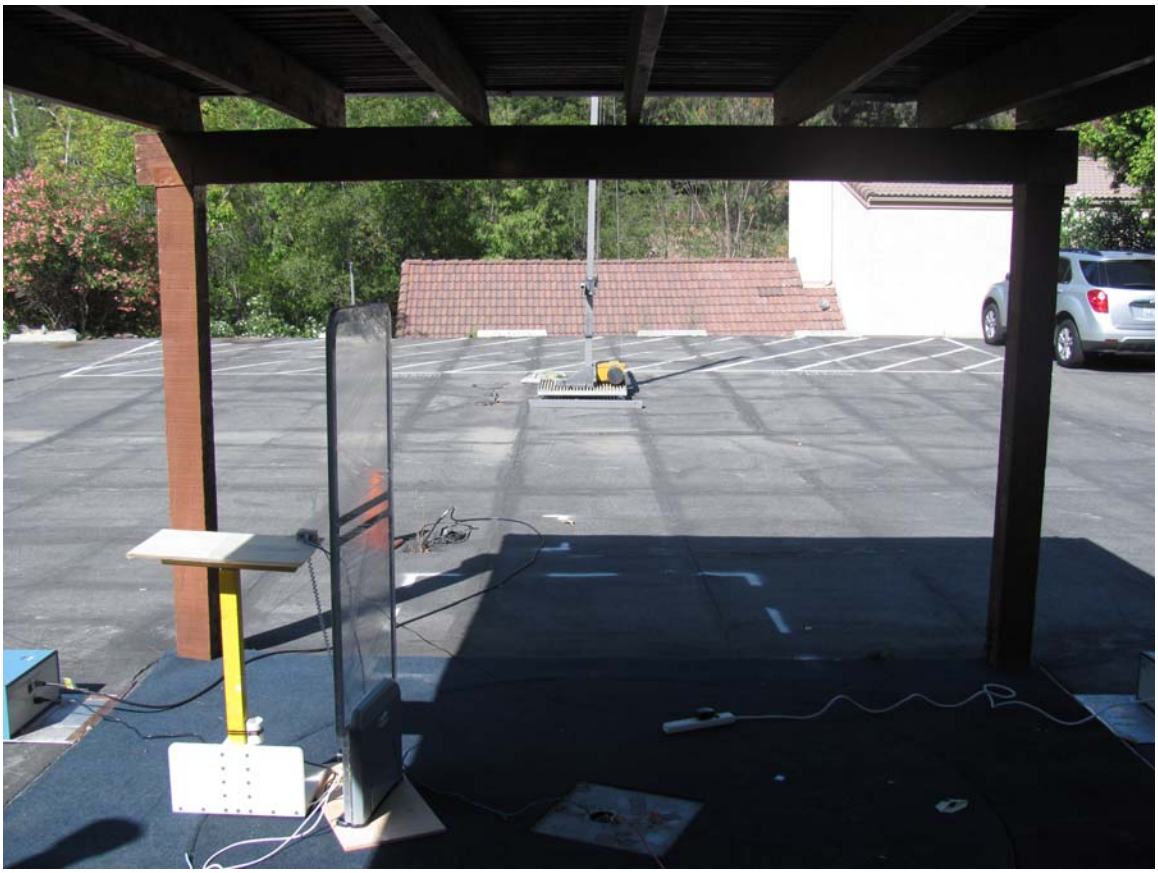
## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC SUBPART B – RADIATED EMISSIONS – ABOVE 30 MHz – SYNC MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – STAND ALONE MODE

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – SYNC MODE – TX AND RX

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – SYNC MODE – TX AND RX

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**FRONT VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – RX BOARD ONLY

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

**REAR VIEW**

AMERICAN SECURITY SPOL. S R.O.
58 kHz ACE SYSTEM
Model: UXT-AS-ACE
FCC 15.207 and FCC SUBPART B – CONDUCTED EMISSIONS – RX BOARD ONLY

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

# APPENDIX E

# *DATA SHEETS*

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power - Stand Alone Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**

**Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit**

**Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 113.3 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 102.5 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 113.3 | V | 123.00 | -9.701 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 67.8 | V | 85.37 | -17.57 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 68.9 | V | 81.85 | -12.948 | Peak | 1 | 90 | |
| 232.8 | 61.1 | V | 79.35 | -18.249 | Peak | 1 | 90 | |
| 291 | 60.9 | V | 77.41 | -16.511 | Peak | 1 | 90 | |
| 349.2 | 52.5 | V | 75.83 | -23.328 | Peak | 1 | 90 | |
| 407.4 | 52.1 | V | 74.49 | -22.389 | Peak | 1 | 90 | |
| 465.6 | 50.1 | V | 73.33 | -23.229 | Peak | 1 | 90 | |
| 523.8 | 48.6 | V | 52.31 | -3.7058 | Peak | 1 | 90 | |
| 582 | 48.5 | V | 51.39 | -2.8906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(113.3-102.5) / 20 Log (15/10)] = 3.07

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power - Stand Alone Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**

**Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit**

**Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 104.4 | H | -- | -- | Peak | 1 | 135 | Actual Reading @ 10m |
| 58.2 | 95.2 | H | -- | -- | Peak | 1 | 135 | Actual Reading @ 15m |
| 58.2 | 104.4 | H | 109.47 | -5.07 | Peak | 1 | 135 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 54.1 | H | 85.37 | -31.27 | Peak | 1 | 180 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 56.4 | H | 81.85 | -25.448 | Peak | 1 | 135 | |
| 232.8 | 56.8 | H | 79.35 | -22.549 | Peak | 1 | 135 | |
| 291 | 53.4 | H | 77.41 | -24.011 | Peak | 1 | 135 | |
| 349.2 | 51.9 | H | 75.83 | -23.928 | Peak | 1 | 135 | |
| 407.4 | 50.1 | H | 74.49 | -24.389 | Peak | 1 | 90 | |
| 465.6 | 49.3 | H | 73.33 | -24.029 | Peak | 1 | 90 | |
| 523.8 | 48.7 | H | 52.31 | -3.6058 | Peak | 1 | 90 | |
| 582 | 49.2 | H | 51.39 | -2.1906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(104.4-95.20) / 20 Log (15/10)] = 2.612

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power - Stand Alone Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**
**Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 102.6 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 92.1 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 102.6 | V | 120.34 | -17.742 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 51.9 | V | 85.37 | -33.47 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 57.7 | V | 81.85 | -24.148 | Peak | 1 | 90 | |
| 232.8 | 54.1 | V | 79.35 | -25.249 | Peak | 1 | 90 | |
| 291 | 54.2 | V | 77.41 | -23.211 | Peak | 1 | 90 | |
| 349.2 | 50.9 | V | 75.83 | -24.928 | Peak | 1 | 90 | |
| 407.4 | 49.9 | V | 74.49 | -24.589 | Peak | 1 | 90 | |
| 465.6 | 48.1 | V | 73.33 | -25.229 | Peak | 1 | 90 | |
| 523.8 | 48.4 | V | 52.31 | -3.9058 | Peak | 1 | 90 | |
| 582 | 47.5 | V | 51.39 | -3.8906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(102.6-92.1) / 20 Log (15/10)] = 2.98

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power - Stand Alone Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**
**Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 95.5 | H | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 82.5 | H | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 95.4 | H | 141.32 | -45.917 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 40.1 | H | 85.37 | -45.27 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 56.2 | H | 81.85 | -25.648 | Peak | 1 | 90 | |
| 232.8 | 54.6 | H | 79.35 | -24.749 | Peak | 1 | 90 | |
| 291 | 55.2 | H | 77.41 | -22.211 | Peak | 1 | 90 | |
| 349.2 | 49 | H | 75.83 | -26.828 | Peak | 1 | 90 | |
| 407.4 | 50.7 | H | 74.49 | -23.789 | Peak | 1 | 90 | |
| 465.6 | 48.7 | H | 73.33 | -24.629 | Peak | 1 | 90 | |
| 523.8 | 43.9 | H | 52.31 | -8.4058 | Peak | 1 | 90 | |
| 582 | 46.1 | H | 51.39 | -5.2906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(95.5-82.5) / 20 Log (15/10)] = 3.69

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power - Sync Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**

**Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit**

**Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 114 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 103.4 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 114 | V | 121.23 | -7.2285 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 69.3 | V | 85.37 | -16.07 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 70.7 | V | 81.85 | -11.148 | Peak | 1 | 90 | |
| 232.8 | 57.5 | V | 79.35 | -21.849 | Peak | 1 | 90 | |
| 291 | 54.3 | V | 77.41 | -23.111 | Peak | 1 | 90 | |
| 349.2 | 57.1 | V | 75.83 | -18.728 | Peak | 1 | 90 | |
| 407.4 | 51.3 | V | 74.49 | -23.189 | Peak | 1 | 90 | |
| 465.6 | 50.9 | V | 73.33 | -22.429 | Peak | 1 | 90 | |
| 523.8 | 45.8 | V | 52.31 | -6.5058 | Peak | 1 | 90 | |
| 582 | 46.2 | V | 51.39 | -5.1906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(114-103.4) / 20 Log (15/10)] = 3.01

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Maximum Power - Sync Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**

**Corrected Spec Limit at 10 Meters for Harmonics = [40 Log (spec test dist./actual test dist.)] + spec limit**

**Corrected Spec Limit at 10 Meters for Fundamental = [(P*20) Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 105.6 | H | -- | -- | Peak | 1 | 135 | Actual Reading @ 10m |
| 58.2 | 96.7 | H | -- | -- | Peak | 1 | 135 | Actual Reading @ 15m |
| 58.2 | 105.6 | H | 106.96 | -1.36 | Peak | 1 | 135 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 61.7 | H | 85.37 | -23.67 | Peak | 1 | 180 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 60.9 | H | 81.85 | -20.948 | Peak | 1 | 135 | |
| 232.8 | 59 | H | 79.35 | -20.349 | Peak | 1 | 135 | |
| 291 | 55.3 | H | 77.41 | -22.111 | Peak | 1 | 135 | |
| 349.2 | 54.3 | H | 75.83 | -21.528 | Peak | 1 | 135 | |
| 407.4 | 52.8 | H | 74.49 | -21.689 | Peak | 1 | 90 | |
| 465.6 | 56 | H | 73.33 | -17.329 | Peak | 1 | 90 | |
| 523.8 | 47.3 | H | 52.31 | -5.0058 | Peak | 1 | 90 | |
| 582 | 48.2 | H | 51.39 | -3.1906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(105.6-96.70) / 20 Log (15/10)] = 2.527

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power - Sync Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**
**Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 103.9 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 93.3 | V | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 103.9 | V | 121.23 | -17.328 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 44.4 | V | 85.37 | -40.97 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 38.8 | V | 81.85 | -43.048 | Peak | 1 | 90 | |
| 232.8 | 39.4 | V | 79.35 | -39.949 | Peak | 1 | 90 | |
| 291 | 56.1 | V | 77.41 | -21.311 | Peak | 1 | 90 | |
| 349.2 | 52.9 | V | 75.83 | -22.928 | Peak | 1 | 90 | |
| 407.4 | 52.3 | V | 74.49 | -22.189 | Peak | 1 | 90 | |
| 465.6 | 50.1 | V | 73.33 | -23.229 | Peak | 1 | 90 | |
| 523.8 | 49.1 | V | 52.31 | -3.2058 | Peak | 1 | 90 | |
| 582 | 48.2 | V | 51.39 | -3.1906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]
Where P is the roll-off exponent. P is found as follows:
P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)
@ 15 Meters - P =[(103.9-93.3) / 20 Log (15/10)] = 3.01

**FCC 15.209**

American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE

Date: 06/26/2014
Lab: A
Tested By: Kyle Fujimoto

**Transmit Mode - Minimum Power - Sync Mode**
**Test Distance: 10 Meters (Except Where Noted in Comments)**
**Corrected Spec Limit at 10 Meters = [40 Log (spec test dist./actual test dist.)] + spec limit**

| Freq. (kHz) | Level (dBuV) | Pol (v/h) | Spec Limit (at 10 Meters) | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 58.2 | 95.4 | H | -- | -- | Peak | 1 | 90 | Actual Reading @ 10m |
| 58.2 | 82.6 | H | -- | -- | Peak | 1 | 90 | Actual Reading @ 15m |
| 58.2 | 95.4 | H | 139.54 | -44.145 | Peak | 1 | 90 | Actual Reading @ 10m Corrected using (P*20) |
| 116.4 | 44.1 | H | 85.37 | -41.27 | Peak | 1 | 90 | Note: No Other Emissions Detected from 9 kHz to 30 MHz |
| 174.6 | 56.1 | H | 81.85 | -25.748 | Peak | 1 | 90 | |
| 232.8 | 56.5 | H | 79.35 | -22.849 | Peak | 1 | 90 | |
| 291 | 53.1 | H | 77.41 | -24.311 | Peak | 1 | 90 | |
| 349.2 | 49.9 | H | 75.83 | -25.928 | Peak | 1 | 90 | |
| 407.4 | 51.7 | H | 74.49 | -22.789 | Peak | 1 | 90 | |
| 465.6 | 49.9 | H | 73.33 | -23.429 | Peak | 1 | 90 | |
| 523.8 | 48.5 | H | 52.31 | -3.8058 | Peak | 1 | 90 | |
| 582 | 48.5 | H | 51.39 | -2.8906 | Peak | 1 | 90 | |

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz

Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

Limit in uV/m = 30 at 30 Meters from 1705 kHz to 30 MHz

Distance Correction Factor for Fundamental = [(P*20) log (Test Distance / 300)]

Where P is the roll-off exponent. P is found as follows:

P = (Level (at 10 Meters) - Level (at 2nd Test Distance)) / 20 Log (2nd Test Distance / 10 Meters)

@ 15 Meters - P =[(95.4-82.6) / 20 Log (15/10)] = 3.63

**Test Location** : Compatible Electronics **Page :** 1/1
**Customer** : American Security spol. s r.o. **Date :** 06 / 26 / 2014
**Manufacturer** : American Security spol. s r.o. **Time:** 01:59:00 PM
**Eut name** : 58 kHz ACE System **Lab:** A
**Model** : UXT-AS-ACE **Test Distance :** 10.00
**Serial #** : N/A
**Specification** : FCC A
**Distance correction factor (20 * log(test/spec))** : 0.00
**Test Mode** : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical)
FCC Class A - Maximum Power - Stand Alone
Test Engineer: Kyle Fujimoto

| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | Limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| 1V | 35.370 | 37.20 | 0.75 | 22.04 | 32.65 | 27.34 | 39.08 | -11.74 |
| 2V | 45.240 | 48.10 | 0.96 | 21.08 | 32.60 | 37.54 | 39.08 | -1.54 |
| 3V | 45.303Qp | 45.33 | 0.96 | 21.05 | 32.59 | 34.74 | 39.08 | -4.34 |
| 4V | 49.561 | 34.20 | 1.09 | 18.92 | 32.51 | 21.70 | 39.08 | -17.38 |
| 5H | 56.580 | 36.60 | 1.10 | 18.50 | 32.50 | 23.70 | 39.08 | -15.38 |
| 6H | 67.460 | 39.10 | 1.17 | 14.89 | 32.50 | 22.67 | 39.08 | -16.41 |
| 7V | 108.882 | 45.90 | 1.40 | 14.14 | 32.40 | 29.04 | 43.52 | -14.48 |
| 8H | 114.735 | 39.10 | 1.40 | 14.96 | 32.40 | 23.06 | 43.52 | -20.46 |
| 9V | 117.213 | 42.60 | 1.40 | 15.31 | 32.40 | 26.91 | 43.52 | -16.61 |
| 10V | 123.004 | 41.80 | 1.40 | 15.76 | 32.40 | 26.56 | 43.52 | -16.96 |
| 11V | 126.847 | 45.50 | 1.42 | 15.64 | 32.39 | 30.17 | 43.52 | -13.35 |
| 12V | 133.725 | 38.20 | 1.50 | 15.04 | 32.37 | 22.38 | 43.52 | -21.14 |
| 13V | 140.813 | 38.70 | 1.59 | 14.49 | 32.34 | 22.44 | 43.52 | -21.08 |
| 14V | 150.039 | 56.70 | 1.70 | 14.40 | 32.30 | 40.50 | 43.52 | -3.02 |
| 15H | 150.080 | 46.50 | 1.70 | 14.40 | 32.30 | 30.30 | 43.52 | -13.22 |
| 16V | 166.916 | 35.20 | 1.63 | 14.87 | 32.30 | 19.40 | 43.52 | -24.12 |
| 17V | 200.039 | 51.10 | 1.90 | 14.50 | 32.30 | 35.20 | 43.52 | -8.32 |
| 18H | 200.160 | 42.60 | 1.90 | 14.51 | 32.30 | 26.71 | 43.52 | -16.81 |
| 19H | 210.560 | 43.20 | 1.77 | 14.99 | 32.00 | 27.95 | 43.52 | -15.57 |
| 20H | 235.360 | 36.10 | 2.01 | 16.13 | 31.93 | 22.31 | 46.44 | -24.13 |
| 21V | 243.310 | 37.60 | 2.33 | 16.49 | 32.19 | 24.24 | 46.44 | -22.20 |
| 22V | 250.039 | 37.70 | 2.60 | 16.80 | 32.40 | 24.70 | 46.44 | -21.74 |
| 23H | 250.160 | 36.90 | 2.60 | 16.81 | 32.40 | 23.91 | 46.44 | -22.53 |
| 24V | 280.463 | 43.60 | 2.87 | 17.90 | 32.32 | 32.04 | 46.44 | -14.40 |
| 25V | 300.035 | 45.90 | 3.10 | 18.60 | 32.40 | 35.20 | 46.44 | -11.24 |
| 26V | 419.560 | 33.80 | 3.86 | 20.82 | 32.12 | 26.35 | 46.44 | -20.09 |
| 27V | 611.319 | 31.90 | 5.27 | 22.89 | 31.80 | 28.26 | 46.44 | -18.18 |
| 28V | 759.589 | 34.30 | 6.38 | 25.58 | 31.62 | 34.63 | 46.44 | -11.81 |
| 29V | 782.601 | 31.50 | 6.56 | 25.76 | 31.67 | 32.16 | 46.44 | -14.28 |
| 30V | 800.120 | 32.20 | 6.70 | 25.90 | 31.70 | 33.10 | 46.44 | -13.34 |

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| | | | |
|---|---|---|---|
| **Test Location** | : Compatible Electronics | **Page :** | 1/1 |
| **Customer** | : American Security spol. s r.o. | **Date :** | 06 / 26 / 2014 |
| **Manufacturer** | : American Security spol. s r.o. | **Time:** | 03:15:13 PM |
| **Eut name** | : 58 kHz ACE System | **Lab:** | A |
| **Model** | : UXT-AS-ACE | **Test Distance :** | 10.00 |
| **Serial #** | : N/A | | |
| **Specification** | : FCC A | | |

**Distance correction factor (20 * log(test/spec))** : 0.00

**Test Mode** : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Minimum Power - Stand Alone
Test Engineer: Kyle Fujimoto

| Pol | Freq | Rdng | Cable loss | Ant factor | Amp gain | Cor'd rdg = R | Limit = L | Delta R-L |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV/m | dB |
| 1V | 44.240 | 42.50 | 0.93 | 21.41 | 32.62 | 32.22 | 39.08 | -6.86 |
| 2V | 49.820 | 38.00 | 1.09 | 18.79 | 32.50 | 25.38 | 39.08 | -13.70 |
| 3H | 49.932 | 36.60 | 1.10 | 18.73 | 32.50 | 23.93 | 39.08 | -15.15 |
| 4H | 80.332 | 31.70 | 1.40 | 10.37 | 32.40 | 11.07 | 39.08 | -28.01 |
| 5V | 83.060 | 43.90 | 1.43 | 10.97 | 32.43 | 23.87 | 39.08 | -15.21 |
| 6H | 110.632 | 41.30 | 1.40 | 14.39 | 32.40 | 24.69 | 43.52 | -18.83 |
| 7H | 126.114 | 36.90 | 1.41 | 15.70 | 32.40 | 21.62 | 43.52 | -21.90 |
| 8H | 150.034 | 40.50 | 1.70 | 14.40 | 32.30 | 24.30 | 43.52 | -19.22 |
| 9V | 150.059 | 56.10 | 1.70 | 14.40 | 32.30 | 39.90 | 43.52 | -3.62 |
| 10V | 200.579 | 43.50 | 1.89 | 14.53 | 32.28 | 27.64 | 43.52 | -15.88 |
| 11V | 231.740 | 35.70 | 1.87 | 15.96 | 31.82 | 21.71 | 46.44 | -24.73 |
| 12H | 286.128 | 41.50 | 2.93 | 18.10 | 32.34 | 30.19 | 46.44 | -16.25 |
| 13V | 288.540 | 33.70 | 2.96 | 18.19 | 32.35 | 22.50 | 46.44 | -23.94 |
| 14V | 300.484 | 41.90 | 3.10 | 18.58 | 32.40 | 31.18 | 46.44 | -15.26 |
| 15H | 328.528 | 33.30 | 3.21 | 17.29 | 32.17 | 21.63 | 46.44 | -24.81 |
| 16V | 333.769 | 39.30 | 3.24 | 17.05 | 32.13 | 27.45 | 46.44 | -18.99 |

**Test Location** : Compatible Electronics **Page :** 1/2
**Customer** : American Security spol. s r.o. **Date :** 06 / 26 / 2014
**Manufacturer** : American Security spol. s r.o. **Time:** 04:14:35 PM
**Eut name** : 58 kHz ACE System **Lab:** A
**Model** : UXT-AS-ACE **Test Distance :** 10.00
**Serial #** : N/A
**Specification** : FCC A
**Distance correction factor (20 * log(test/spec))** : 0.00
**Test Mode** : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Maximum Power - Sync Mode
Test Engineer: Kyle Fujimoto

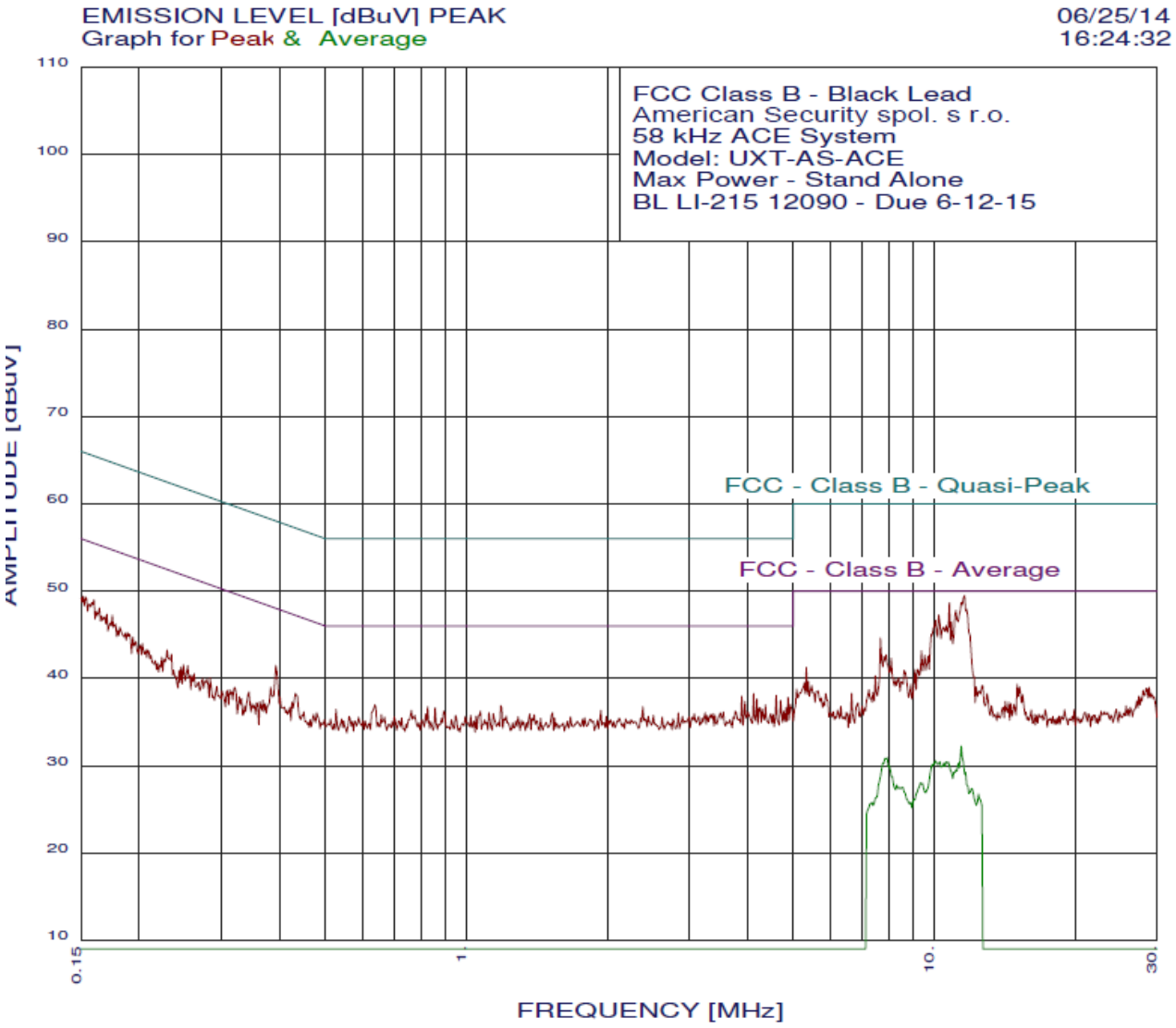
| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | Limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| 1V | 30.072 | 43.80 | 0.70 | 21.51 | 32.60 | 33.41 | 39.08 | -5.67 |
| 2V | 39.910 | 40.70 | 0.80 | 22.59 | 32.70 | 31.39 | 39.08 | -7.69 |
| 3H | 50.130 | 32.10 | 1.10 | 18.70 | 32.50 | 19.40 | 39.08 | -19.68 |
| 4V | 60.410 | 44.10 | 1.10 | 18.21 | 32.50 | 30.91 | 39.08 | -8.17 |
| 5H | 75.130 | 37.30 | 1.30 | 11.96 | 32.45 | 18.11 | 39.08 | -20.97 |
| 6V | 85.690 | 44.90 | 1.46 | 11.55 | 32.46 | 25.45 | 39.08 | -13.63 |
| 7V | 111.282 | 41.60 | 1.40 | 14.48 | 32.40 | 25.08 | 43.52 | -18.44 |
| 8V | 121.023 | 35.80 | 1.40 | 15.72 | 32.40 | 20.52 | 43.52 | -23.00 |
| 9H | 125.013 | 39.90 | 1.40 | 15.80 | 32.40 | 24.70 | 43.52 | -18.82 |
| 10V | 135.201 | 42.60 | 1.52 | 14.92 | 32.36 | 26.68 | 43.52 | -16.84 |
| 11V | 150.045 | 59.10 | 1.70 | 14.40 | 32.30 | 42.90 | 43.52 | -0.62 |
| 12V | 150.045Qp | 58.42 | 1.70 | 14.40 | 32.30 | 42.22 | 43.52 | -1.30 |
| 13H | 150.050 | 51.40 | 1.70 | 14.40 | 32.30 | 35.20 | 43.52 | -8.32 |
| 14V | 159.201 | 37.50 | 1.66 | 14.49 | 32.30 | 21.36 | 43.52 | -22.16 |
| 15V | 159.428 | 34.70 | 1.66 | 14.49 | 32.30 | 18.56 | 43.52 | -24.96 |
| 16H | 165.059 | 32.30 | 1.64 | 14.77 | 32.30 | 16.41 | 43.52 | -27.11 |
| 17V | 165.888 | 44.20 | 1.64 | 14.81 | 32.30 | 28.35 | 43.52 | -15.17 |
| 18V | 172.602 | 31.00 | 1.61 | 15.17 | 32.30 | 15.48 | 43.52 | -28.04 |
| 19H | 182.068 | 33.70 | 1.68 | 14.68 | 32.30 | 17.76 | 43.52 | -25.76 |
| 20V | 196.001 | 37.00 | 1.85 | 14.54 | 32.30 | 21.09 | 43.52 | -22.43 |
| 21H | 200.050 | 47.80 | 1.90 | 14.50 | 32.30 | 31.90 | 43.52 | -11.62 |
| 22V | 232.228 | 39.90 | 1.89 | 15.98 | 31.83 | 25.94 | 46.44 | -20.50 |
| 23H | 250.114 | 40.40 | 2.60 | 16.80 | 32.40 | 27.41 | 46.44 | -19.03 |
| 24H | 275.050 | 35.20 | 2.80 | 17.70 | 32.30 | 23.40 | 46.44 | -23.04 |
| 25V | 286.628 | 35.20 | 2.94 | 18.12 | 32.35 | 23.91 | 46.44 | -22.53 |
| 26V | 300.068 | 48.70 | 3.10 | 18.60 | 32.40 | 38.00 | 46.44 | -8.44 |
| 27H | 300.098 | 47.40 | 3.10 | 18.60 | 32.40 | 36.70 | 46.44 | -9.74 |
| 28V | 350.068 | 33.80 | 3.30 | 16.31 | 32.00 | 21.41 | 46.44 | -25.03 |
| 29V | 400.068 | 34.10 | 3.70 | 20.70 | 32.20 | 26.30 | 46.44 | -20.14 |
| 30H | 400.306 | 39.50 | 3.70 | 20.70 | 32.20 | 31.71 | 46.44 | -14.73 |
| 31V | 450.068 | 35.70 | 4.10 | 21.00 | 32.00 | 28.80 | 46.44 | -17.64 |
| 32V | 500.068 | 34.10 | 4.50 | 22.70 | 32.00 | 29.30 | 46.44 | -17.14 |
| 33H | 550.012 | 32.10 | 4.80 | 21.70 | 31.90 | 26.70 | 46.44 | -19.74 |
| 34V | 550.068 | 32.10 | 4.80 | 21.70 | 31.90 | 26.70 | 46.44 | -19.74 |
| 35V | 649.893 | 32.10 | 5.50 | 23.20 | 31.80 | 29.00 | 46.44 | -17.44 |

**Test Location** : Compatible Electronics **Page :** 2/2
**Customer** : American Security spol. s r.o. **Date :** 06 / 26 / 2014
**Manufacturer** : American Security spol. s r.o. **Time:** 04:14:35 PM
**Eut name** : 58 kHz ACE System **Lab:** A
**Model** : UXT-AS-ACE **Test Distance :** 10.00
**Serial #** : N/A
**Specification** : FCC A
**Distance correction factor (20 * log(test/spec))** : 0.00
**Test Mode** : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical) FCC Class A - Maximum Power - Sync Mode
Test Engineer: Kyle Fujimoto

| Pol | Freq | Rdng | Cable loss | Ant factor | Amp gain | Cor'd rdg = R | Limit = L | Delta R-L |
|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV/m | dB |
| 36V | 700.013 | 32.50 | 6.00 | 24.20 | 31.70 | 31.00 | 46.44 | -15.44 |
| 37V | 800.013 | 31.90 | 6.70 | 25.90 | 31.70 | 32.80 | 46.44 | -13.64 |
| 38H | 820.013 | 13.50 | 6.90 | 26.18 | 31.62 | 14.96 | 46.44 | -31.48 |
| 39H | 900.012 | 34.90 | 7.40 | 26.70 | 31.00 | 38.00 | 46.44 | -8.44 |

**Test Location** : Compatible Electronics **Page :** 1/1
**Customer** : American Security spol. s r.o. **Date :** 06 / 27 / 2014
**Manufacturer** : American Security spol. s r.o. **Time:** 08:29:44 AM
**Eut name** : 58 kHz ACE System **Lab:** A
**Model** : UXT-AS-ACE **Test Distance :** 10.00
**Serial #** : N/A
**Specification** : FCC A
**Distance correction factor (20 * log(test/spec))** : 0.00
**Test Mode** : Test Type: Spurious Emissions Qualification Scan
Test Range: 30 MHz to 2 GHz (Horizontal and Vertical)
FCC Class A - Minimum Power - Sync Mode
Test Engineer: Kyle Fujimoto

| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | Limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| 1H | 49.982 | 35.40 | 1.10 | 18.71 | 32.50 | 22.71 | 39.08 | -16.37 |
| 2V | 50.068 | 42.10 | 1.10 | 18.70 | 32.50 | 29.40 | 39.08 | -9.68 |
| 3H | 72.360 | 40.90 | 1.25 | 12.90 | 32.48 | 22.57 | 39.08 | -16.51 |
| 4V | 81.314 | 45.20 | 1.41 | 10.59 | 32.41 | 24.79 | 39.08 | -14.29 |
| 5H | 116.840 | 37.20 | 1.40 | 15.26 | 32.40 | 21.46 | 43.52 | -22.06 |
| 6V | 150.068 | 56.40 | 1.70 | 14.40 | 32.30 | 40.20 | 43.52 | -3.32 |
| 7V | 160.068 | 38.40 | 1.66 | 14.50 | 32.30 | 22.26 | 43.52 | -21.26 |
| 8V | 178.256 | 50.90 | 1.64 | 14.91 | 32.30 | 35.15 | 43.52 | -8.37 |
| 9V | 225.065 | 47.30 | 1.60 | 15.65 | 31.60 | 32.95 | 46.44 | -13.49 |
| 10H | 250.100 | 38.90 | 2.60 | 16.80 | 32.40 | 25.90 | 46.44 | -20.54 |
| 11V | 267.459 | 34.00 | 2.74 | 17.43 | 32.33 | 21.84 | 46.44 | -24.60 |
| 12V | 297.059 | 32.40 | 3.06 | 18.49 | 32.39 | 21.57 | 46.44 | -24.87 |
| 13V | 300.079 | 49.70 | 3.10 | 18.60 | 32.40 | 39.00 | 46.44 | -7.44 |
| 14H | 301.740 | 30.10 | 3.11 | 18.52 | 32.39 | 19.34 | 46.44 | -27.10 |
| 15H | 325.740 | 34.60 | 3.20 | 17.42 | 32.19 | 23.02 | 46.44 | -23.42 |
| 16V | 379.279 | 33.80 | 3.53 | 18.88 | 32.12 | 24.09 | 46.44 | -22.35 |
| 17H | 400.110 | 35.50 | 3.70 | 20.70 | 32.20 | 27.70 | 46.44 | -18.74 |
| 18V | 463.342 | 35.40 | 4.21 | 21.45 | 32.00 | 29.06 | 46.44 | -17.38 |
| 19H | 510.510 | 33.50 | 4.56 | 22.49 | 31.98 | 28.57 | 46.44 | -17.87 |
| 20H | 529.710 | 31.60 | 4.68 | 22.11 | 31.94 | 26.44 | 46.44 | -20.00 |
| 21V | 602.540 | 36.40 | 5.22 | 22.82 | 31.80 | 32.64 | 46.44 | -13.80 |
| 22V | 700.140 | 29.70 | 6.00 | 24.20 | 31.70 | 28.20 | 46.44 | -18.24 |


EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
16:24:32
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

06/25/14 16:24:32

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.624 | 49.49 | 50.00 | -0.51** |
| 2 | 10.792 | 48.66 | 50.00 | -1.34** |
| 3 | 11.145 | 47.77 | 50.00 | -2.23** |
| 4 | 10.238 | 47.24 | 50.00 | -2.76** |
| 5 | 10.074 | 46.64 | 50.00 | -3.36** |
| 6 | 10.910 | 46.47 | 50.00 | -3.53** |
| 7 | 7.689 | 44.59 | 50.00 | -5.41** |
| 8 | 0.160 | 48.97 | 55.47 | -6.50 |
| 9 | 0.391 | 41.49 | 48.03 | -6.55 |
| 10 | 9.403 | 43.12 | 50.00 | -6.88** |
| 11 | 0.164 | 48.05 | 55.25 | -7.19 |
| 12 | 7.898 | 42.70 | 50.00 | -7.30** |
| 13 | 9.557 | 42.63 | 50.00 | -7.37** |
| 14 | 9.711 | 42.53 | 50.00 | -7.47** |
| 15 | 0.175 | 47.21 | 54.72 | -7.51 |
| 16 | 0.170 | 47.33 | 54.94 | -7.61 |
| 17 | 8.107 | 42.30 | 50.00 | -7.70** |
| 18 | 4.114 | 38.25 | 46.00 | -7.75 |
| 19 | 4.600 | 38.05 | 46.00 | -7.95 |
| 20 | 3.882 | 37.95 | 46.00 | -8.05 |
| 21 | 4.877 | 37.85 | 46.00 | -8.15 |
| 22 | 4.182 | 37.65 | 46.00 | -8.35 |
| 23 | 0.182 | 45.88 | 54.41 | -8.53 |
| 24 | 4.696 | 37.45 | 46.00 | -8.55 |
| 25 | 3.945 | 37.35 | 46.00 | -8.65 |
| 26 | 5.335 | 41.25 | 50.00 | -8.75 |
| 27 | 4.928 | 37.05 | 46.00 | -8.95 |
| 28 | 0.431 | 38.27 | 47.24 | -8.97 |
| 29 | 9.112 | 41.02 | 50.00 | -8.98** |
| 30 | 4.361 | 36.95 | 46.00 | -9.05 |
| 31 | 0.637 | 36.94 | 46.00 | -9.06 |
| 32 | 8.640 | 40.91 | 50.00 | -9.09** |
| 33 | 1.184 | 36.88 | 46.00 | -9.12 |
| 34 | 0.194 | 44.73 | 53.88 | -9.16 |
| 35 | 0.229 | 43.26 | 52.48 | -9.21 |
| 36 | 2.384 | 36.74 | 46.00 | -9.26 |
| 37 | 0.826 | 36.74 | 46.00 | -9.26 |
| 38 | 0.381 | 38.99 | 48.25 | -9.26 |
| 39 | 4.825 | 36.65 | 46.00 | -9.35 |
| 40 | 4.249 | 36.65 | 46.00 | -9.35 |
| 41 | 0.858 | 36.64 | 46.00 | -9.36 |
| 42 | 0.203 | 43.99 | 53.49 | -9.50 |
| 43 | 4.294 | 36.45 | 46.00 | -9.55 |
| 44 | 0.527 | 36.44 | 46.00 | -9.56 |
| 45 | 0.763 | 36.34 | 46.00 | -9.66 |

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**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 16:24:32

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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25 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.439 | 32.24 | 50.00 | -17.76 |
| 2 | 7.940 | 30.89 | 50.00 | -19.11 |
| 3 | 7.856 | 30.82 | 50.00 | -19.18 |
| 4 | 10.074 | 30.54 | 50.00 | -19.46 |
| 5 | 10.293 | 30.45 | 50.00 | -19.55 |
| 6 | 10.623 | 30.43 | 50.00 | -19.57 |
| 7 | 10.733 | 30.39 | 50.00 | -19.61 |
| 8 | 10.513 | 30.31 | 50.00 | -19.69 |
| 9 | 7.773 | 30.30 | 50.00 | -19.70 |
| 10 | 11.263 | 30.24 | 50.00 | -19.76 |
| 11 | 9.916 | 30.12 | 50.00 | -19.88 |
| 12 | 8.023 | 29.92 | 50.00 | -20.08 |
| 13 | 11.145 | 29.48 | 50.00 | -20.52 |
| 14 | 11.688 | 29.23 | 50.00 | -20.77 |
| 15 | 8.148 | 28.75 | 50.00 | -21.25 |
| 16 | 9.352 | 28.01 | 50.00 | -21.99 |
| 17 | 9.454 | 27.97 | 50.00 | -22.03 |
| 18 | 8.327 | 27.78 | 50.00 | -22.22 |
| 19 | 8.551 | 27.55 | 50.00 | -22.45 |
| 20 | 8.416 | 27.50 | 50.00 | -22.50 |
| 21 | 12.066 | 27.36 | 50.00 | -22.64 |
| 22 | 12.453 | 26.73 | 50.00 | -23.27 |
| 23 | 9.065 | 26.15 | 50.00 | -23.85 |
| 24 | 8.921 | 25.81 | 50.00 | -24.19 |
| 25 | 7.372 | 25.78 | 50.00 | -24.22 |

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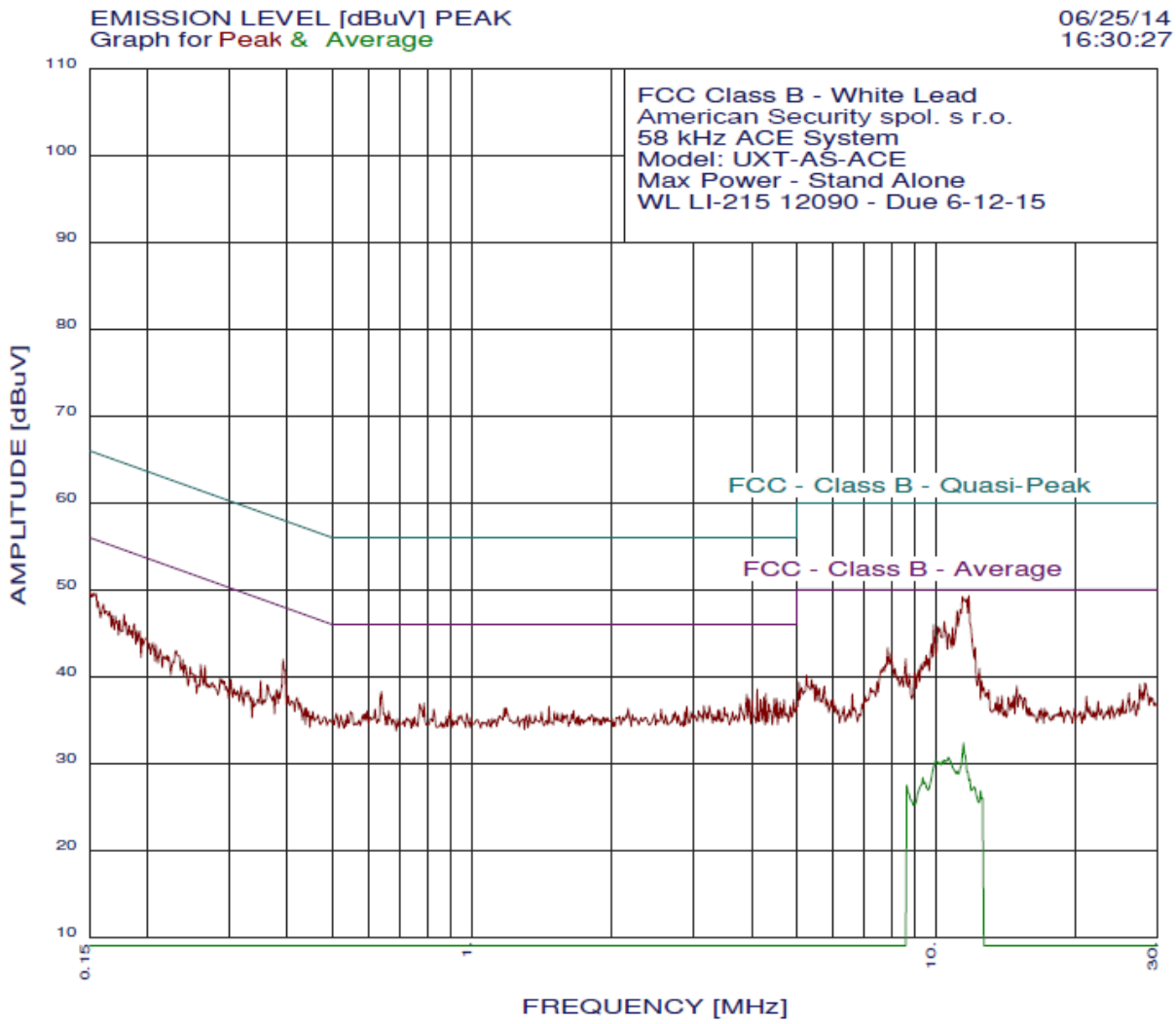
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
16:30:27
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

06/25/14 16:30:27

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.751 | 49.30 | 50.00 | -0.70** |
| 2 | 11.381 | 49.19 | 50.00 | -0.81** |
| 3 | 11.086 | 47.58 | 50.00 | -2.42** |
| 4 | 10.403 | 46.35 | 50.00 | -3.65** |
| 5 | 9.865 | 45.93 | 50.00 | -4.07** |
| 6 | 10.074 | 45.74 | 50.00 | -4.26** |
| 7 | 10.851 | 45.67 | 50.00 | -4.33** |
| 8 | 10.623 | 44.96 | 50.00 | -5.04** |
| 9 | 0.391 | 41.99 | 48.03 | -6.04 |
| 10 | 9.762 | 43.73 | 50.00 | -6.27** |
| 11 | 12.129 | 43.32 | 50.00 | -6.68** |
| 12 | 7.856 | 43.30 | 50.00 | -6.70 |
| 13 | 0.161 | 48.33 | 55.43 | -7.10 |
| 14 | 7.981 | 42.70 | 50.00 | -7.30 |
| 15 | 0.178 | 47.17 | 54.59 | -7.42 |
| 16 | 4.114 | 38.54 | 46.00 | -7.46 |
| 17 | 9.506 | 42.43 | 50.00 | -7.57** |
| 18 | 0.637 | 38.24 | 46.00 | -7.76 |
| 19 | 0.170 | 47.00 | 54.94 | -7.94 |
| 20 | 4.294 | 38.04 | 46.00 | -7.96 |
| 21 | 8.595 | 42.01 | 50.00 | -7.99 |
| 22 | 3.903 | 37.94 | 46.00 | -8.06 |
| 23 | 0.168 | 47.01 | 55.07 | -8.07 |
| 24 | 0.187 | 46.04 | 54.15 | -8.11 |
| 25 | 0.174 | 46.48 | 54.77 | -8.28 |
| 26 | 4.249 | 37.64 | 46.00 | -8.36 |
| 27 | 0.183 | 45.85 | 54.37 | -8.52 |
| 28 | 3.945 | 37.44 | 46.00 | -8.56 |
| 29 | 4.480 | 37.44 | 46.00 | -8.56 |
| 30 | 4.528 | 37.44 | 46.00 | -8.56 |
| 31 | 4.008 | 37.34 | 46.00 | -8.66 |
| 32 | 4.182 | 37.34 | 46.00 | -8.66 |
| 33 | 4.696 | 37.34 | 46.00 | -8.66 |
| 34 | 4.928 | 37.34 | 46.00 | -8.66 |
| 35 | 0.193 | 45.22 | 53.93 | -8.71 |
| 36 | 0.189 | 45.23 | 54.06 | -8.83 |
| 37 | 4.600 | 37.04 | 46.00 | -8.96 |
| 38 | 0.788 | 36.94 | 46.00 | -9.06 |
| 39 | 12.386 | 40.93 | 50.00 | -9.07** |
| 40 | 4.361 | 36.84 | 46.00 | -9.16 |
| 41 | 3.781 | 36.84 | 46.00 | -9.16 |
| 42 | 0.771 | 36.84 | 46.00 | -9.16 |
| 43 | 9.160 | 40.82 | 50.00 | -9.18** |
| 44 | 4.851 | 36.64 | 46.00 | -9.36 |
| 45 | 3.243 | 36.64 | 46.00 | -9.36 |

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**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 16:30:27

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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15 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.439 | 32.35 | 50.00 | -17.65 |
| 2 | 10.623 | 30.69 | 50.00 | -19.31 |
| 3 | 10.403 | 30.38 | 50.00 | -19.62 |
| 4 | 9.967 | 30.37 | 50.00 | -19.63 |
| 5 | 10.293 | 30.25 | 50.00 | -19.75 |
| 6 | 11.086 | 29.11 | 50.00 | -20.89 |
| 7 | 9.352 | 28.35 | 50.00 | -21.65 |
| 8 | 11.814 | 28.18 | 50.00 | -21.82 |
| 9 | 9.454 | 27.80 | 50.00 | -22.20 |
| 10 | 8.640 | 27.45 | 50.00 | -22.55 |
| 11 | 12.066 | 27.31 | 50.00 | -22.69 |
| 12 | 12.453 | 26.84 | 50.00 | -23.16 |
| 13 | 12.588 | 25.98 | 50.00 | -24.02 |
| 14 | 8.873 | 25.69 | 50.00 | -24.31 |
| 15 | 8.969 | 25.47 | 50.00 | -24.53 |

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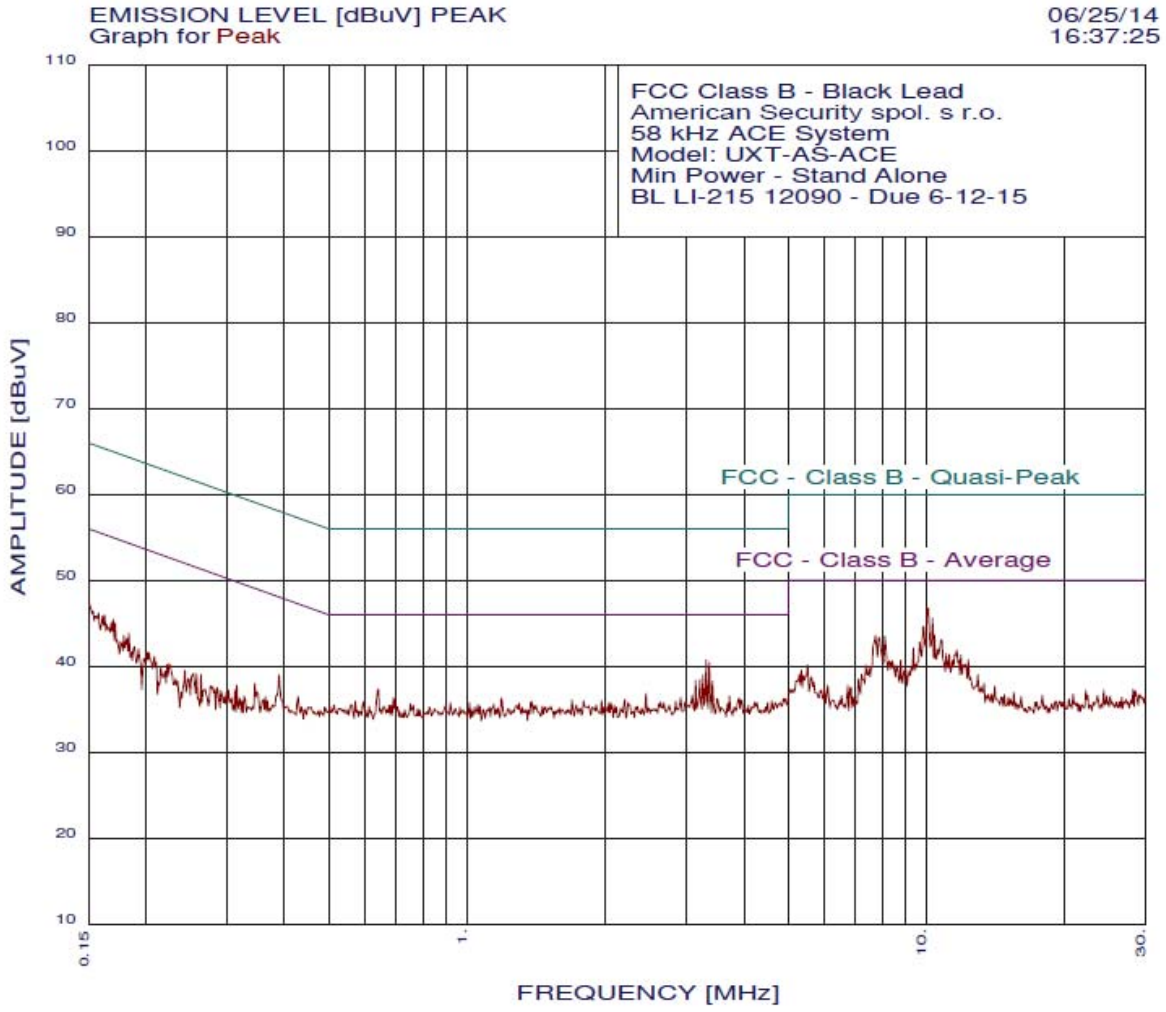
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:37:25
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:37:25

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 10.074 | 46.74 | 50.00 | -3.26 |
| 2 | 10.293 | 45.65 | 50.00 | -4.35 |
| 3 | 3.311 | 40.74 | 46.00 | -5.26 |
| 4 | 9.813 | 44.63 | 50.00 | -5.37 |
| 5 | 3.365 | 40.44 | 46.00 | -5.56 |
| 6 | 10.403 | 43.65 | 50.00 | -6.35 |
| 7 | 7.731 | 43.60 | 50.00 | -6.40 |
| 8 | 8.107 | 43.50 | 50.00 | -6.50 |
| 9 | 7.898 | 43.30 | 50.00 | -6.70 |
| 10 | 10.792 | 43.06 | 50.00 | -6.94 |
| 11 | 3.260 | 38.94 | 46.00 | -7.06 |
| 12 | 9.660 | 42.83 | 50.00 | -7.17 |
| 13 | 3.209 | 38.44 | 46.00 | -7.56 |
| 14 | 3.141 | 38.34 | 46.00 | -7.66 |
| 15 | 3.419 | 38.24 | 46.00 | -7.76 |
| 16 | 9.352 | 42.12 | 50.00 | -7.88 |
| 17 | 11.624 | 41.89 | 50.00 | -8.11 |
| 18 | 11.027 | 41.47 | 50.00 | -8.53 |
| 19 | 11.204 | 41.38 | 50.00 | -8.62 |
| 20 | 0.641 | 37.34 | 46.00 | -8.66 |
| 21 | 11.877 | 41.30 | 50.00 | -8.70 |
| 22 | 0.389 | 38.99 | 48.08 | -9.09 |
| 23 | 2.449 | 36.84 | 46.00 | -9.16 |
| 24 | 12.318 | 40.82 | 50.00 | -9.18 |
| 25 | 8.777 | 40.71 | 50.00 | -9.29 |
| 26 | 3.091 | 36.64 | 46.00 | -9.36 |
| 27 | 0.162 | 45.96 | 55.34 | -9.38 |
| 28 | 8.416 | 40.61 | 50.00 | -9.39 |
| 29 | 3.722 | 36.54 | 46.00 | -9.46 |
| 30 | 0.170 | 45.43 | 54.98 | -9.55 |
| 31 | 0.161 | 45.87 | 55.43 | -9.56 |
| 32 | 3.903 | 36.35 | 46.00 | -9.65 |
| 33 | 2.916 | 36.34 | 46.00 | -9.66 |
| 34 | 0.690 | 36.34 | 46.00 | -9.66 |
| 35 | 1.184 | 36.28 | 46.00 | -9.72 |
| 36 | 3.492 | 36.24 | 46.00 | -9.76 |
| 37 | 0.698 | 36.24 | 46.00 | -9.76 |
| 38 | 12.129 | 40.21 | 50.00 | -9.79 |
| 39 | 5.508 | 40.16 | 50.00 | -9.84 |
| 40 | 2.201 | 36.14 | 46.00 | -9.86 |
| 41 | 0.171 | 45.02 | 54.90 | -9.87 |
| 42 | 8.595 | 40.11 | 50.00 | -9.89 |
| 43 | 7.372 | 40.09 | 50.00 | -9.91 |
| 44 | 1.690 | 36.08 | 46.00 | -9.92 |
| 45 | 3.945 | 36.05 | 46.00 | -9.95 |

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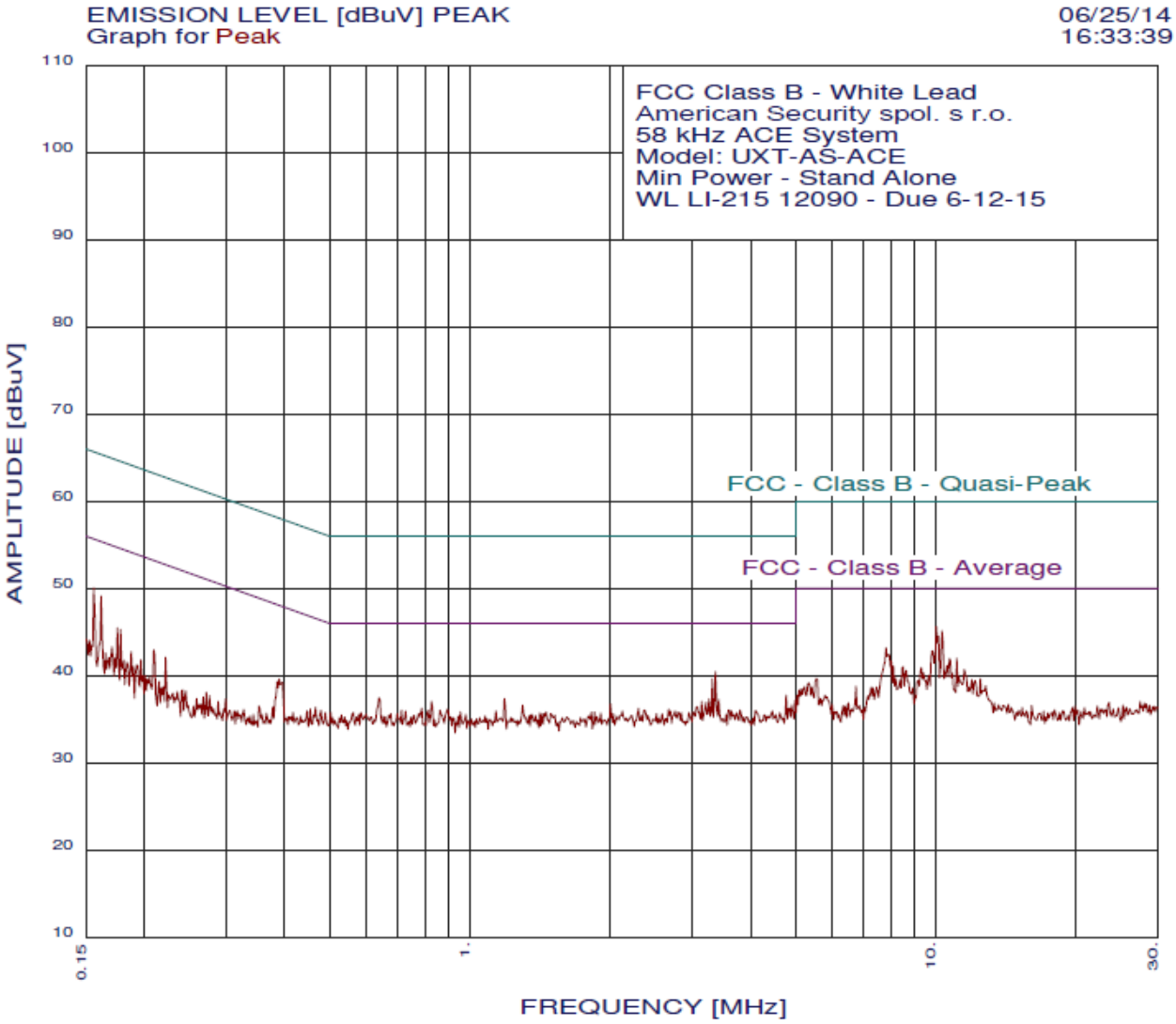
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:33:39
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:33:39

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Stand Alone
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 10.019 | 45.64 | 50.00 | -4.36 |
| 2 | 10.293 | 45.15 | 50.00 | -4.85 |
| 3 | 3.365 | 40.44 | 46.00 | -5.56 |
| 4 | 0.156 | 50.05 | 55.69 | -5.64 |
| 5 | 0.162 | 49.13 | 55.38 | -6.25 |
| 6 | 3.311 | 39.64 | 46.00 | -6.36 |
| 7 | 7.815 | 43.19 | 50.00 | -6.81 |
| 8 | 9.813 | 42.83 | 50.00 | -7.17 |
| 9 | 11.086 | 41.98 | 50.00 | -8.02 |
| 10 | 10.678 | 41.96 | 50.00 | -8.04 |
| 11 | 4.774 | 37.74 | 46.00 | -8.26 |
| 12 | 0.389 | 39.59 | 48.08 | -8.48 |
| 13 | 0.637 | 37.44 | 46.00 | -8.56 |
| 14 | 1.184 | 37.38 | 46.00 | -8.62 |
| 15 | 3.260 | 37.34 | 46.00 | -8.66 |
| 16 | 3.419 | 37.24 | 46.00 | -8.76 |
| 17 | 10.568 | 41.16 | 50.00 | -8.84 |
| 18 | 4.980 | 37.14 | 46.00 | -8.86 |
| 19 | 8.107 | 41.10 | 50.00 | -8.90 |
| 20 | 3.141 | 37.04 | 46.00 | -8.96 |
| 21 | 0.826 | 37.04 | 46.00 | -8.96 |
| 22 | 8.506 | 41.01 | 50.00 | -8.99 |
| 23 | 3.209 | 36.94 | 46.00 | -9.06 |
| 24 | 9.304 | 40.92 | 50.00 | -9.08 |
| 25 | 0.175 | 45.48 | 54.72 | -9.24 |
| 26 | 2.002 | 36.74 | 46.00 | -9.26 |
| 27 | 11.498 | 40.69 | 50.00 | -9.31 |
| 28 | 0.178 | 45.27 | 54.59 | -9.32 |
| 29 | 4.902 | 36.64 | 46.00 | -9.36 |
| 30 | 8.640 | 40.61 | 50.00 | -9.39 |
| 31 | 1.297 | 36.60 | 46.00 | -9.40 |
| 32 | 3.075 | 36.44 | 46.00 | -9.56 |
| 33 | 4.825 | 36.24 | 46.00 | -9.76 |
| 34 | 2.298 | 36.24 | 46.00 | -9.76 |
| 35 | 0.788 | 36.24 | 46.00 | -9.76 |
| 36 | 2.665 | 36.14 | 46.00 | -9.86 |
| 37 | 0.895 | 36.14 | 46.00 | -9.86 |
| 38 | 3.800 | 36.04 | 46.00 | -9.96 |
| 39 | 3.605 | 36.04 | 46.00 | -9.96 |
| 40 | 2.371 | 36.04 | 46.00 | -9.96 |
| 41 | 0.713 | 36.04 | 46.00 | -9.96 |
| 42 | 0.862 | 36.04 | 46.00 | -9.96 |
| 43 | 0.814 | 36.04 | 46.00 | -9.96 |
| 44 | 9.660 | 40.03 | 50.00 | -9.97 |
| 45 | 1.136 | 35.97 | 46.00 | -10.03 |

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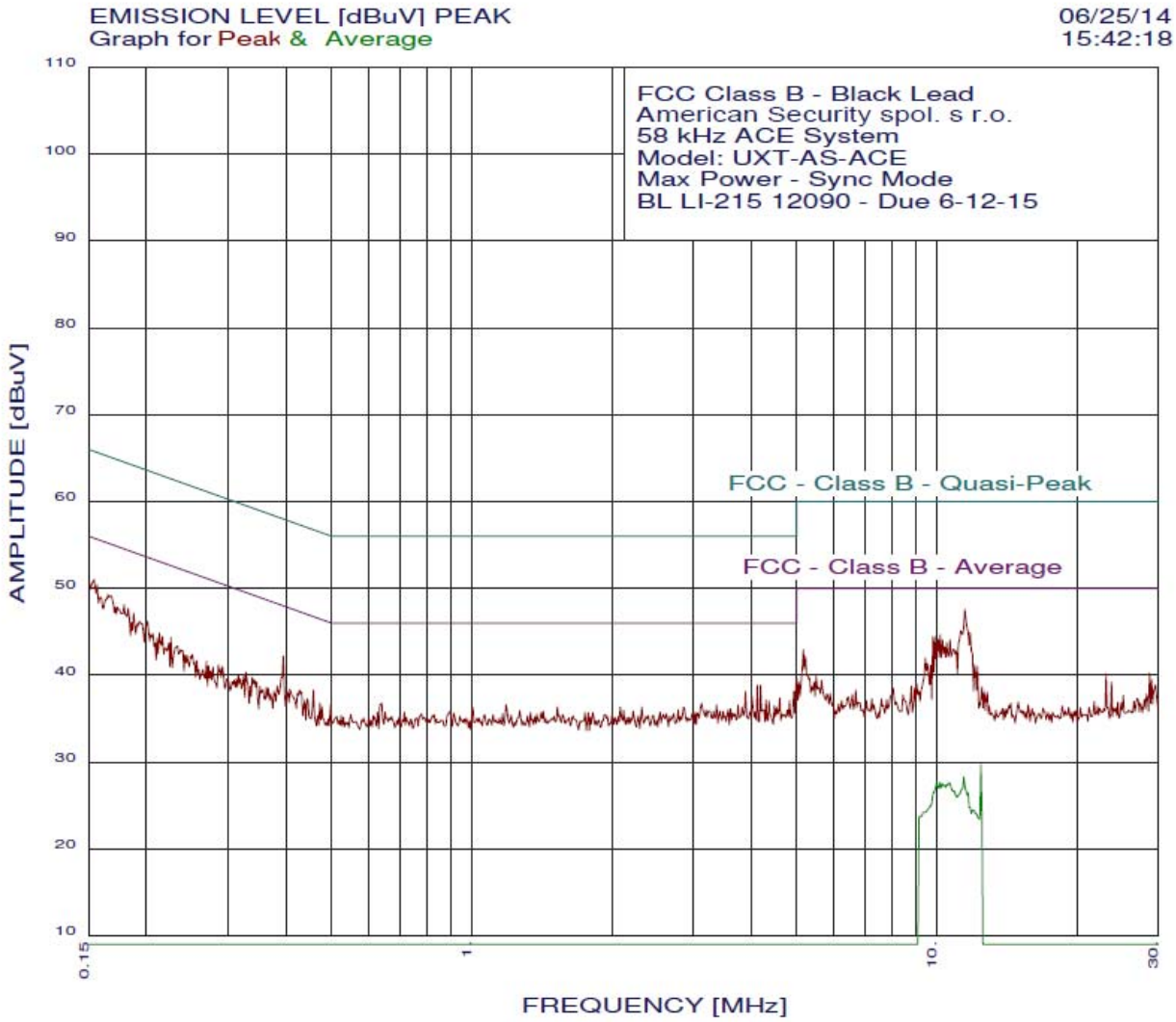
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
15:42:18
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

06/25/14 15:42:18

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.498 | 47.59 | 50.00 | -2.41** |
| 2 | 0.154 | 51.00 | 55.78 | -4.78 |
| 3 | 11.814 | 44.90 | 50.00 | -5.10** |
| 4 | 10.183 | 44.64 | 50.00 | -5.36** |
| 5 | 9.916 | 44.43 | 50.00 | -5.57** |
| 6 | 9.813 | 44.43 | 50.00 | -5.57** |
| 7 | 0.393 | 42.18 | 47.99 | -5.81 |
| 8 | 10.074 | 44.14 | 50.00 | -5.86** |
| 9 | 10.678 | 44.06 | 50.00 | -5.94** |
| 10 | 0.165 | 49.25 | 55.20 | -5.95 |
| 11 | 10.293 | 44.05 | 50.00 | -5.95** |
| 12 | 10.513 | 43.75 | 50.00 | -6.25** |
| 13 | 0.179 | 48.09 | 54.54 | -6.45 |
| 14 | 0.187 | 47.15 | 54.15 | -6.99 |
| 15 | 5.169 | 42.95 | 50.00 | -7.05 |
| 16 | 4.182 | 38.85 | 46.00 | -7.15 |
| 17 | 4.114 | 38.85 | 46.00 | -7.15 |
| 18 | 0.201 | 46.20 | 53.58 | -7.38 |
| 19 | 0.193 | 46.13 | 53.93 | -7.79 |
| 20 | 5.224 | 42.15 | 50.00 | -7.85 |
| 21 | 4.928 | 38.15 | 46.00 | -7.85 |
| 22 | 3.882 | 38.15 | 46.00 | -7.85 |
| 23 | 9.454 | 41.93 | 50.00 | -8.07** |
| 24 | 0.226 | 44.38 | 52.61 | -8.23 |
| 25 | 0.213 | 44.84 | 53.09 | -8.25 |
| 26 | 4.008 | 37.65 | 46.00 | -8.35 |
| 27 | 0.457 | 38.26 | 46.76 | -8.50 |
| 28 | 4.600 | 37.35 | 46.00 | -8.65 |
| 29 | 12.066 | 41.21 | 50.00 | -8.79** |
| 30 | 4.294 | 37.15 | 46.00 | -8.85 |
| 31 | 9.711 | 41.13 | 50.00 | -8.87** |
| 32 | 0.211 | 44.25 | 53.18 | -8.93 |
| 33 | 4.825 | 37.05 | 46.00 | -8.95 |
| 34 | 4.361 | 37.05 | 46.00 | -8.95 |
| 35 | 12.255 | 41.01 | 50.00 | -8.99** |
| 36 | 0.233 | 43.35 | 52.34 | -9.00 |
| 37 | 0.223 | 43.69 | 52.70 | -9.00 |
| 38 | 0.426 | 38.27 | 47.33 | -9.06 |
| 39 | 0.327 | 40.31 | 49.53 | -9.22 |
| 40 | 3.124 | 36.74 | 46.00 | -9.26 |
| 41 | 0.641 | 36.74 | 46.00 | -9.26 |
| 42 | 0.406 | 38.38 | 47.72 | -9.34 |
| 43 | 0.251 | 42.36 | 51.73 | -9.36 |
| 44 | 1.184 | 36.58 | 46.00 | -9.42 |
| 45 | 3.741 | 36.54 | 46.00 | -9.46 |

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**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 15:42:18

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

13 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 12.453 | 29.68 | 50.00 | -20.32 |
| 2 | 11.439 | 28.25 | 50.00 | -21.75 |
| 3 | 10.019 | 27.71 | 50.00 | -22.29 |
| 4 | 10.183 | 27.62 | 50.00 | -22.38 |
| 5 | 10.678 | 27.55 | 50.00 | -22.45 |
| 6 | 10.293 | 27.45 | 50.00 | -22.55 |
| 7 | 10.513 | 27.35 | 50.00 | -22.65 |
| 8 | 10.403 | 27.30 | 50.00 | -22.70 |
| 9 | 10.910 | 26.68 | 50.00 | -23.32 |
| 10 | 11.688 | 26.43 | 50.00 | -23.57 |
| 11 | 11.814 | 24.74 | 50.00 | -25.26 |
| 12 | 12.003 | 24.41 | 50.00 | -25.59 |
| 13 | 12.192 | 24.01 | 50.00 | -25.99 |

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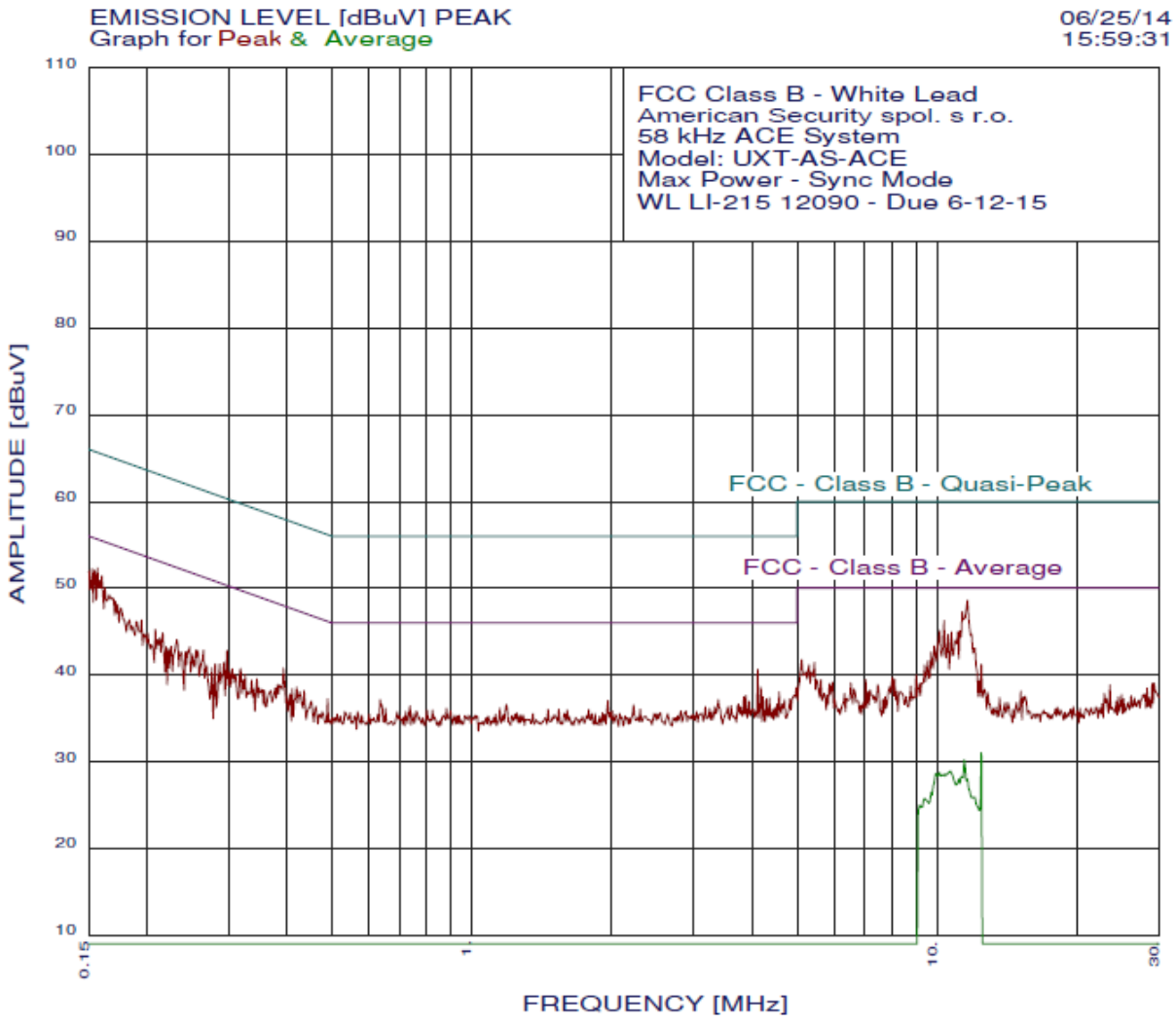
EMISSION LEVEL [dBuV] PEAK
Graph for Peak & Average
06/25/14
15:59:31
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1
10
30
FREQUENCY [MHz]

page 1/1

06/25/14 15:59:31

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.624 | 48.60 | 50.00 | -1.40** |
| 2 | 0.157 | 52.35 | 55.64 | -3.30 |
| 3 | 0.152 | 52.26 | 55.86 | -3.60 |
| 4 | 0.154 | 52.05 | 55.78 | -3.72 |
| 5 | 10.348 | 46.25 | 50.00 | -3.75** |
| 6 | 0.160 | 51.43 | 55.47 | -4.04 |
| 7 | 10.129 | 45.14 | 50.00 | -4.86** |
| 8 | 11.086 | 44.98 | 50.00 | -5.02** |
| 9 | 10.733 | 44.96 | 50.00 | -5.04** |
| 10 | 0.162 | 50.02 | 55.34 | -5.31 |
| 11 | 10.568 | 44.66 | 50.00 | -5.34** |
| 12 | 4.114 | 40.64 | 46.00 | -5.36 |
| 13 | 0.171 | 48.49 | 54.90 | -6.40 |
| 14 | 9.865 | 43.33 | 50.00 | -6.67** |
| 15 | 0.176 | 47.68 | 54.68 | -7.00 |
| 16 | 0.393 | 40.79 | 47.99 | -7.20 |
| 17 | 9.711 | 42.63 | 50.00 | -7.37** |
| 18 | 4.182 | 38.54 | 46.00 | -7.46 |
| 19 | 4.980 | 38.54 | 46.00 | -7.46 |
| 20 | 0.297 | 42.82 | 50.32 | -7.50 |
| 21 | 0.195 | 46.31 | 53.84 | -7.53 |
| 22 | 0.189 | 46.13 | 54.06 | -7.93 |
| 23 | 4.576 | 38.04 | 46.00 | -7.96 |
| 24 | 0.183 | 46.35 | 54.33 | -7.98 |
| 25 | 0.208 | 45.26 | 53.27 | -8.01 |
| 26 | 0.216 | 44.83 | 52.96 | -8.13 |
| 27 | 5.114 | 41.74 | 50.00 | -8.26 |
| 28 | 0.232 | 44.07 | 52.39 | -8.32 |
| 29 | 3.882 | 37.64 | 46.00 | -8.36 |
| 30 | 9.557 | 41.63 | 50.00 | -8.37** |
| 31 | 0.265 | 42.84 | 51.29 | -8.44 |
| 32 | 5.449 | 41.45 | 50.00 | -8.55 |
| 33 | 4.227 | 37.44 | 46.00 | -8.56 |
| 34 | 3.841 | 37.44 | 46.00 | -8.56 |
| 35 | 0.247 | 43.21 | 51.86 | -8.65 |
| 36 | 4.361 | 37.34 | 46.00 | -8.66 |
| 37 | 0.255 | 42.88 | 51.60 | -8.72 |
| 38 | 4.294 | 37.24 | 46.00 | -8.76 |
| 39 | 4.825 | 37.24 | 46.00 | -8.76 |
| 40 | 12.453 | 41.23 | 50.00 | -8.77** |
| 41 | 0.201 | 44.79 | 53.58 | -8.79 |
| 42 | 0.213 | 44.24 | 53.09 | -8.85 |
| 43 | 5.307 | 41.15 | 50.00 | -8.85 |
| 44 | 4.696 | 37.14 | 46.00 | -8.86 |
| 45 | 0.634 | 37.14 | 46.00 | -8.86 |

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**Please See the Average Reading on the Next Page and on the Plot

page 1/1

06/25/14 15:59:31

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

16 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.00 dB, Curve : Average

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 12.453 | 31.02 | 50.00 | -18.98 |
| 2 | 11.439 | 30.22 | 50.00 | -19.78 |
| 3 | 10.678 | 28.93 | 50.00 | -21.07 |
| 4 | 10.129 | 28.75 | 50.00 | -21.25 |
| 5 | 9.967 | 28.63 | 50.00 | -21.37 |
| 6 | 10.458 | 28.55 | 50.00 | -21.45 |
| 7 | 10.348 | 28.55 | 50.00 | -21.45 |
| 8 | 11.263 | 28.29 | 50.00 | -21.71 |
| 9 | 11.624 | 28.00 | 50.00 | -22.00 |
| 10 | 11.145 | 27.98 | 50.00 | -22.02 |
| 11 | 9.711 | 26.48 | 50.00 | -23.52 |
| 12 | 12.066 | 25.90 | 50.00 | -24.10 |
| 13 | 11.940 | 25.90 | 50.00 | -24.10 |
| 14 | 9.403 | 25.76 | 50.00 | -24.24 |
| 15 | 9.160 | 24.98 | 50.00 | -25.02 |
| 16 | 9.256 | 24.85 | 50.00 | -25.15 |

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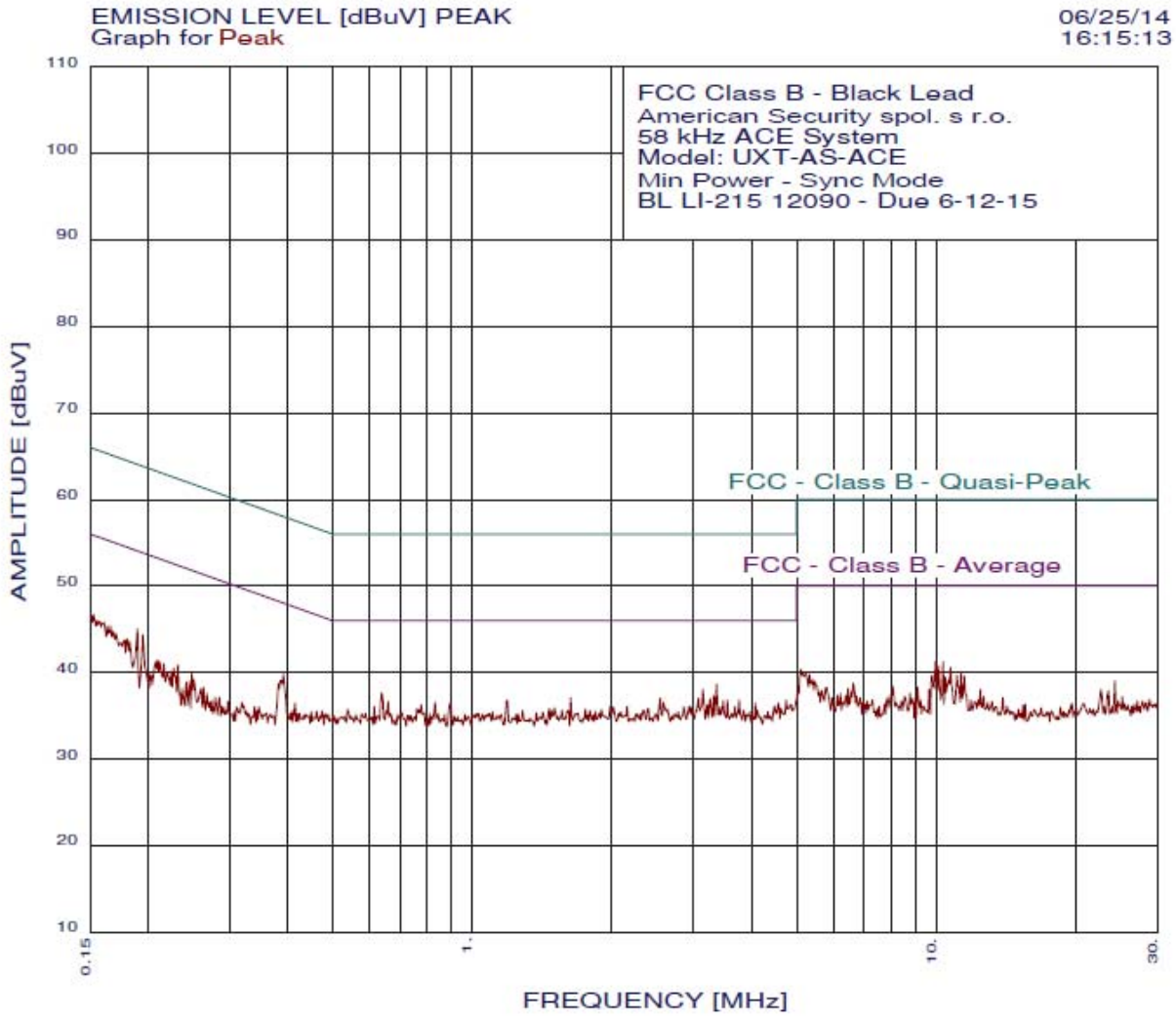
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:15:13
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:15:13

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 3.365 | 38.64 | 46.00 | -7.36 |
| 2 | 3.141 | 38.04 | 46.00 | -7.96 |
| 3 | 0.391 | 39.79 | 48.03 | -8.25 |
| 4 | 0.637 | 37.64 | 46.00 | -8.36 |
| 5 | 3.311 | 37.34 | 46.00 | -8.66 |
| 6 | 10.348 | 41.25 | 50.00 | -8.75 |
| 7 | 9.967 | 41.23 | 50.00 | -8.77 |
| 8 | 1.629 | 37.07 | 46.00 | -8.93 |
| 9 | 3.075 | 37.04 | 46.00 | -8.96 |
| 10 | 2.540 | 37.04 | 46.00 | -8.96 |
| 11 | 0.189 | 45.05 | 54.06 | -9.01 |
| 12 | 3.260 | 36.94 | 46.00 | -9.06 |
| 13 | 4.748 | 36.85 | 46.00 | -9.15 |
| 14 | 3.761 | 36.84 | 46.00 | -9.16 |
| 15 | 3.547 | 36.84 | 46.00 | -9.16 |
| 16 | 1.184 | 36.78 | 46.00 | -9.22 |
| 17 | 3.474 | 36.74 | 46.00 | -9.26 |
| 18 | 10.129 | 40.74 | 50.00 | -9.26 |
| 19 | 0.658 | 36.64 | 46.00 | -9.36 |
| 20 | 10.733 | 40.56 | 50.00 | -9.44 |
| 21 | 2.582 | 36.54 | 46.00 | -9.46 |
| 22 | 0.831 | 36.54 | 46.00 | -9.46 |
| 23 | 0.195 | 44.32 | 53.84 | -9.52 |
| 24 | 4.576 | 36.45 | 46.00 | -9.55 |
| 25 | 4.071 | 36.45 | 46.00 | -9.55 |
| 26 | 0.895 | 36.44 | 46.00 | -9.56 |
| 27 | 5.114 | 40.35 | 50.00 | -9.65 |
| 28 | 3.209 | 36.24 | 46.00 | -9.76 |
| 29 | 0.775 | 36.24 | 46.00 | -9.76 |
| 30 | 2.932 | 36.14 | 46.00 | -9.86 |
| 31 | 1.981 | 36.14 | 46.00 | -9.86 |
| 32 | 0.163 | 45.36 | 55.29 | -9.93 |
| 33 | 3.683 | 36.04 | 46.00 | -9.96 |
| 34 | 0.614 | 36.04 | 46.00 | -9.96 |
| 35 | 2.855 | 36.04 | 46.00 | -9.96 |
| 36 | 2.156 | 36.04 | 46.00 | -9.96 |
| 37 | 1.504 | 35.94 | 46.00 | -10.06 |
| 38 | 11.322 | 39.88 | 50.00 | -10.12 |
| 39 | 2.397 | 35.84 | 46.00 | -10.16 |
| 40 | 1.464 | 35.83 | 46.00 | -10.17 |
| 41 | 1.754 | 35.79 | 46.00 | -10.21 |
| 42 | 5.335 | 39.75 | 50.00 | -10.25 |
| 43 | 0.538 | 35.74 | 46.00 | -10.26 |
| 44 | 1.899 | 35.72 | 46.00 | -10.28 |
| 45 | 11.086 | 39.67 | 50.00 | -10.33 |

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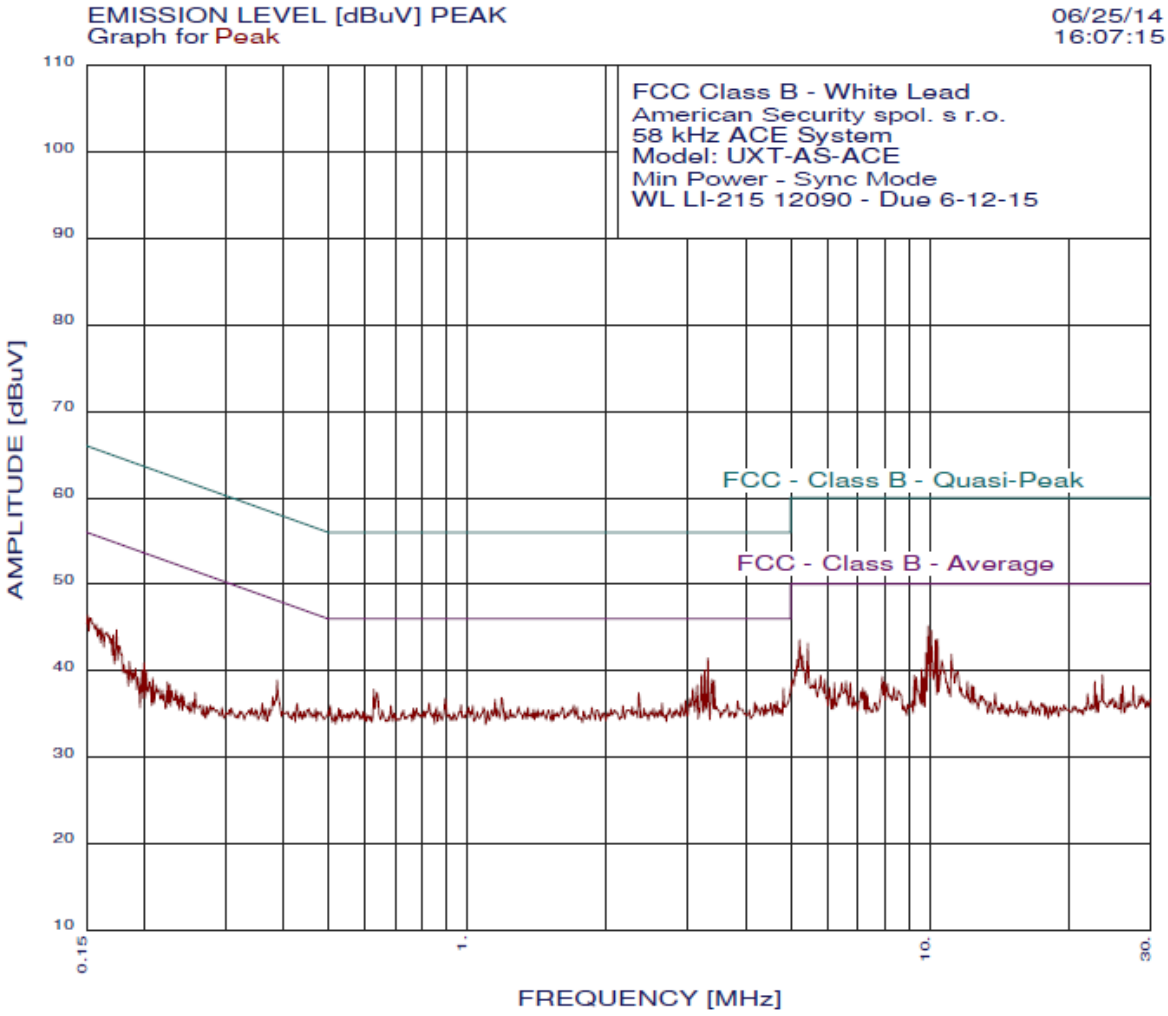
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
16:07:15
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 16:07:15

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Sync Mode
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 3.311 | 41.44 | 46.00 | -4.56 |
| 2 | 9.916 | 45.13 | 50.00 | -4.87 |
| 3 | 10.074 | 44.64 | 50.00 | -5.36 |
| 4 | 3.260 | 40.04 | 46.00 | -5.96 |
| 5 | 10.403 | 43.65 | 50.00 | -6.35 |
| 6 | 10.293 | 43.55 | 50.00 | -6.45 |
| 7 | 5.224 | 43.55 | 50.00 | -6.45 |
| 8 | 3.209 | 39.54 | 46.00 | -6.46 |
| 9 | 5.449 | 43.15 | 50.00 | -6.85 |
| 10 | 3.383 | 38.94 | 46.00 | -7.06 |
| 11 | 3.419 | 38.84 | 46.00 | -7.16 |
| 12 | 3.141 | 38.34 | 46.00 | -7.66 |
| 13 | 9.813 | 42.03 | 50.00 | -7.97 |
| 14 | 4.825 | 37.94 | 46.00 | -8.06 |
| 15 | 3.075 | 37.94 | 46.00 | -8.06 |
| 16 | 11.145 | 41.88 | 50.00 | -8.12 |
| 17 | 0.627 | 37.84 | 46.00 | -8.16 |
| 18 | 5.307 | 41.75 | 50.00 | -8.25 |
| 19 | 0.637 | 37.44 | 46.00 | -8.56 |
| 20 | 2.346 | 37.44 | 46.00 | -8.56 |
| 21 | 10.623 | 41.16 | 50.00 | -8.84 |
| 22 | 1.184 | 36.88 | 46.00 | -9.12 |
| 23 | 0.387 | 38.89 | 48.12 | -9.23 |
| 24 | 0.895 | 36.74 | 46.00 | -9.26 |
| 25 | 1.148 | 36.67 | 46.00 | -9.33 |
| 26 | 2.963 | 36.54 | 46.00 | -9.46 |
| 27 | 3.841 | 36.44 | 46.00 | -9.56 |
| 28 | 4.672 | 36.44 | 46.00 | -9.56 |
| 29 | 4.182 | 36.34 | 46.00 | -9.66 |
| 30 | 4.528 | 36.24 | 46.00 | -9.76 |
| 31 | 2.637 | 36.24 | 46.00 | -9.76 |
| 32 | 0.826 | 36.24 | 46.00 | -9.76 |
| 33 | 0.152 | 46.06 | 55.86 | -9.80 |
| 34 | 3.644 | 36.14 | 46.00 | -9.86 |
| 35 | 2.900 | 36.14 | 46.00 | -9.86 |
| 36 | 9.608 | 40.13 | 50.00 | -9.87 |
| 37 | 4.408 | 36.04 | 46.00 | -9.96 |
| 38 | 0.969 | 36.04 | 46.00 | -9.96 |
| 39 | 1.699 | 35.98 | 46.00 | -10.02 |
| 40 | 0.505 | 35.95 | 46.00 | -10.05 |
| 41 | 1.027 | 35.94 | 46.00 | -10.06 |
| 42 | 0.683 | 35.94 | 46.00 | -10.06 |
| 43 | 2.168 | 35.94 | 46.00 | -10.06 |
| 44 | 0.174 | 44.68 | 54.77 | -10.08 |
| 45 | 11.498 | 39.89 | 50.00 | -10.11 |

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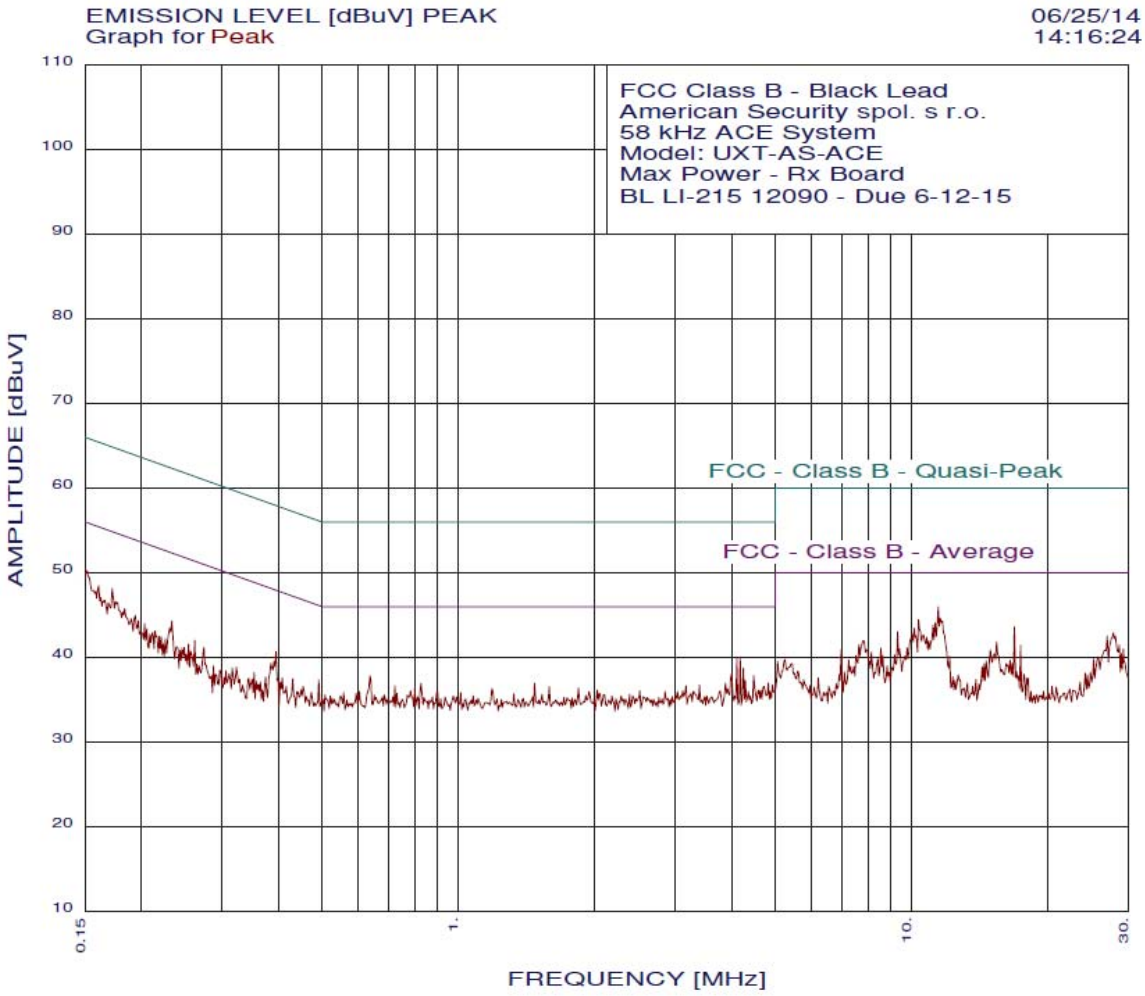
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:16:24
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:16:24

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 11.439 | 45.99 | 50.00 | -4.01 |
| 2 | 10.348 | 44.45 | 50.00 | -5.55 |
| 3 | 11.263 | 44.08 | 50.00 | -5.92 |
| 4 | 4.182 | 40.05 | 46.00 | -5.95 |
| 5 | 4.114 | 39.85 | 46.00 | -6.15 |
| 6 | 11.145 | 43.77 | 50.00 | -6.23 |
| 7 | 16.849 | 43.59 | 50.00 | -6.41 |
| 8 | 10.129 | 43.44 | 50.00 | -6.56 |
| 9 | 0.172 | 48.12 | 54.86 | -6.74 |
| 10 | 0.161 | 48.47 | 55.43 | -6.96 |
| 11 | 9.304 | 43.02 | 50.00 | -6.98 |
| 12 | 27.864 | 42.88 | 50.00 | -7.12 |
| 13 | 4.249 | 38.75 | 46.00 | -7.25 |
| 14 | 0.396 | 40.68 | 47.95 | -7.26 |
| 15 | 26.999 | 42.52 | 50.00 | -7.48 |
| 16 | 4.008 | 38.05 | 46.00 | -7.95 |
| 17 | 7.815 | 42.00 | 50.00 | -8.00 |
| 18 | 0.233 | 44.25 | 52.34 | -8.10 |
| 19 | 4.480 | 37.85 | 46.00 | -8.15 |
| 20 | 0.637 | 37.84 | 46.00 | -8.16 |
| 21 | 15.395 | 41.83 | 50.00 | -8.17 |
| 22 | 7.648 | 41.49 | 50.00 | -8.51 |
| 23 | 0.183 | 45.77 | 54.33 | -8.56 |
| 24 | 17.383 | 41.41 | 50.00 | -8.59 |
| 25 | 4.294 | 37.25 | 46.00 | -8.75 |
| 26 | 0.492 | 37.35 | 46.14 | -8.79 |
| 27 | 9.762 | 41.13 | 50.00 | -8.87 |
| 28 | 8.551 | 41.11 | 50.00 | -8.89 |
| 29 | 0.194 | 44.93 | 53.88 | -8.96 |
| 30 | 29.289 | 40.99 | 50.00 | -9.01 |
| 31 | 4.825 | 36.95 | 46.00 | -9.05 |
| 32 | 3.882 | 36.95 | 46.00 | -9.05 |
| 33 | 0.826 | 36.94 | 46.00 | -9.06 |
| 34 | 1.472 | 36.93 | 46.00 | -9.07 |
| 35 | 14.913 | 40.90 | 50.00 | -9.10 |
| 36 | 6.991 | 40.88 | 50.00 | -9.12 |
| 37 | 3.401 | 36.74 | 46.00 | -9.26 |
| 38 | 3.175 | 36.64 | 46.00 | -9.36 |
| 39 | 0.724 | 36.64 | 46.00 | -9.36 |
| 40 | 0.262 | 42.01 | 51.38 | -9.36 |
| 41 | 8.148 | 40.60 | 50.00 | -9.40 |
| 42 | 1.586 | 36.56 | 46.00 | -9.44 |
| 43 | 4.722 | 36.55 | 46.00 | -9.45 |
| 44 | 0.203 | 43.99 | 53.49 | -9.50 |
| 45 | 29.005 | 40.47 | 50.00 | -9.53 |

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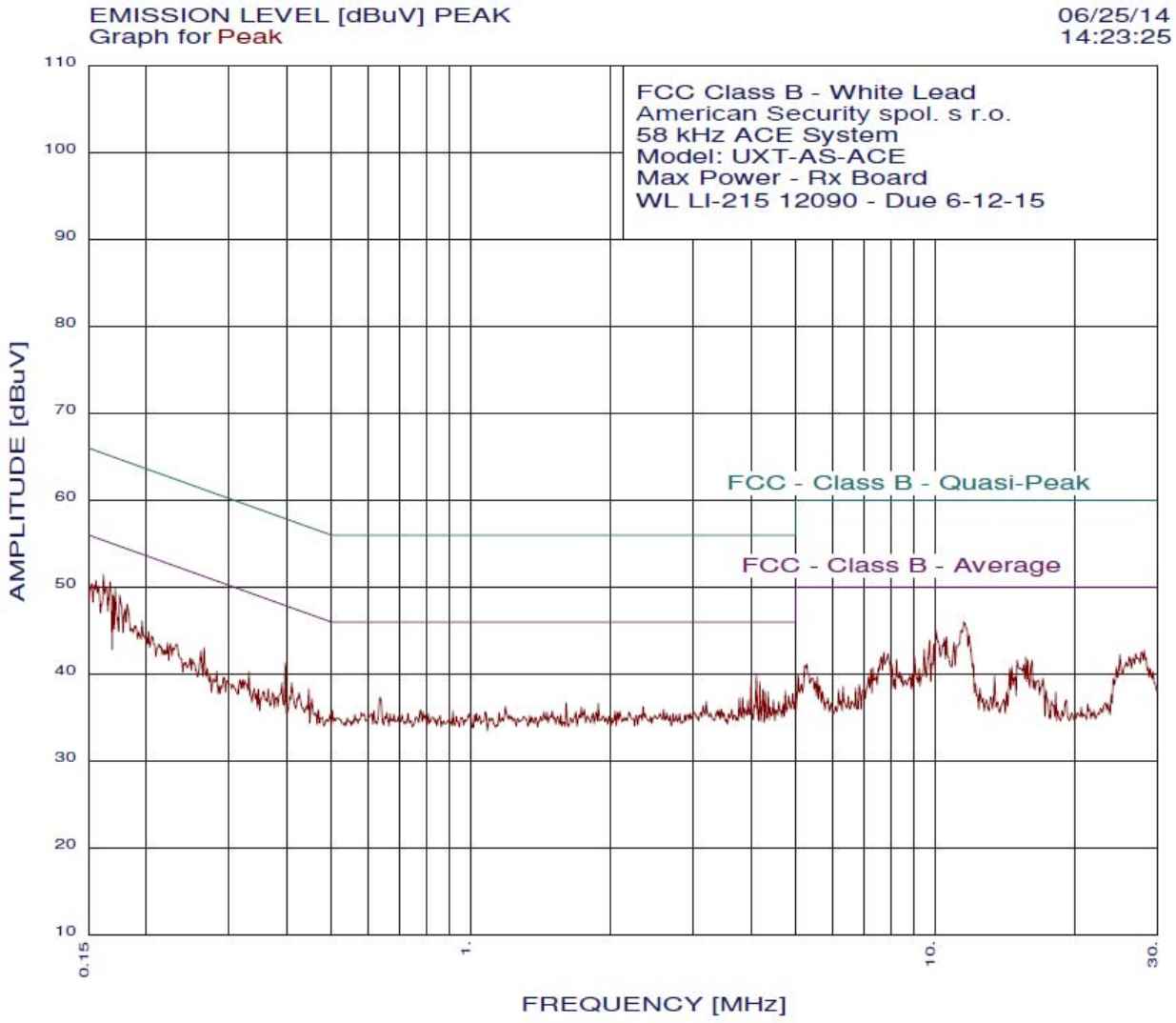
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:23:25
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:23:25

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Max Power - Rx Board
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 0.162 | 51.43 | 55.38 | -3.95 |
| 2 | 11.498 | 45.99 | 50.00 | -4.01 |
| 3 | 0.167 | 50.61 | 55.11 | -4.51 |
| 4 | 0.156 | 50.75 | 55.69 | -4.94 |
| 5 | 10.019 | 45.04 | 50.00 | -4.96 |
| 6 | 0.171 | 49.89 | 54.90 | -5.00 |
| 7 | 11.814 | 44.50 | 50.00 | -5.50 |
| 8 | 0.152 | 50.36 | 55.86 | -5.50 |
| 9 | 0.175 | 49.08 | 54.72 | -5.64 |
| 10 | 10.568 | 44.26 | 50.00 | -5.74 |
| 11 | 10.458 | 44.15 | 50.00 | -5.85 |
| 12 | 0.170 | 49.10 | 54.98 | -5.88 |
| 13 | 4.114 | 40.04 | 46.00 | -5.96 |
| 14 | 9.711 | 43.83 | 50.00 | -6.17 |
| 15 | 10.968 | 43.67 | 50.00 | -6.33 |
| 16 | 0.182 | 48.06 | 54.41 | -6.36 |
| 17 | 9.916 | 43.43 | 50.00 | -6.57 |
| 18 | 0.398 | 41.29 | 47.90 | -6.61 |
| 19 | 4.182 | 39.14 | 46.00 | -6.86 |
| 20 | 0.180 | 47.46 | 54.50 | -7.04 |
| 21 | 4.008 | 38.94 | 46.00 | -7.06 |
| 22 | 9.454 | 42.83 | 50.00 | -7.17 |
| 23 | 28.152 | 42.75 | 50.00 | -7.25 |
| 24 | 7.731 | 42.49 | 50.00 | -7.51 |
| 25 | 26.999 | 42.37 | 50.00 | -7.63 |
| 26 | 0.196 | 46.11 | 53.80 | -7.69 |
| 27 | 7.898 | 42.30 | 50.00 | -7.70 |
| 28 | 4.249 | 38.24 | 46.00 | -7.76 |
| 29 | 24.933 | 42.22 | 50.00 | -7.78 |
| 30 | 4.748 | 38.04 | 46.00 | -7.96 |
| 31 | 9.017 | 42.02 | 50.00 | -7.98 |
| 32 | 26.144 | 42.01 | 50.00 | -7.99 |
| 33 | 7.648 | 41.99 | 50.00 | -8.01 |
| 34 | 15.644 | 41.96 | 50.00 | -8.04 |
| 35 | 4.294 | 37.94 | 46.00 | -8.06 |
| 36 | 4.361 | 37.94 | 46.00 | -8.06 |
| 37 | 0.266 | 43.04 | 51.24 | -8.21 |
| 38 | 4.928 | 37.74 | 46.00 | -8.26 |
| 39 | 8.238 | 41.70 | 50.00 | -8.30 |
| 40 | 14.991 | 41.63 | 50.00 | -8.37 |
| 41 | 16.143 | 41.58 | 50.00 | -8.42 |
| 42 | 15.810 | 41.56 | 50.00 | -8.44 |
| 43 | 4.825 | 37.44 | 46.00 | -8.56 |
| 44 | 0.202 | 44.88 | 53.53 | -8.65 |
| 45 | 0.411 | 38.98 | 47.63 | -8.65 |

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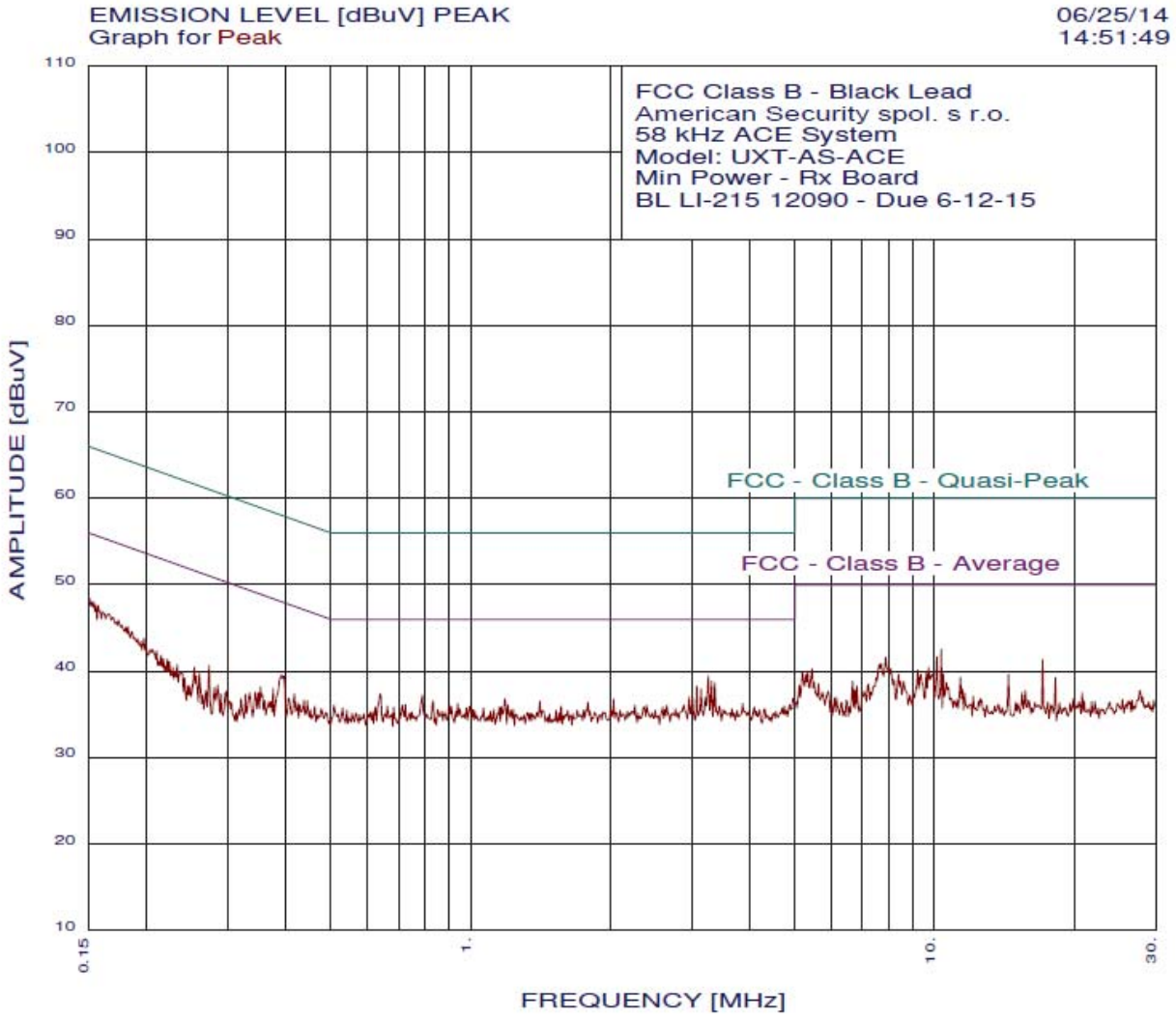
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:51:49
FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
BL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:51:49

FCC Class B - Black Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

---

45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 3.260 | 39.44 | 46.00 | -6.56 |
| 2 | 3.311 | 38.84 | 46.00 | -7.16 |
| 3 | 3.365 | 38.64 | 46.00 | -7.36 |
| 4 | 10.348 | 42.55 | 50.00 | -7.45 |
| 5 | 3.075 | 38.24 | 46.00 | -7.76 |
| 6 | 0.157 | 47.58 | 55.60 | -8.02 |
| 7 | 3.141 | 37.94 | 46.00 | -8.06 |
| 8 | 10.129 | 41.64 | 50.00 | -8.36 |
| 9 | 7.856 | 41.60 | 50.00 | -8.40 |
| 10 | 0.391 | 39.59 | 48.03 | -8.45 |
| 11 | 0.637 | 37.34 | 46.00 | -8.66 |
| 12 | 17.116 | 41.30 | 50.00 | -8.70 |
| 13 | 0.788 | 37.24 | 46.00 | -8.76 |
| 14 | 2.963 | 37.04 | 46.00 | -8.96 |
| 15 | 3.011 | 36.94 | 46.00 | -9.06 |
| 16 | 7.689 | 40.89 | 50.00 | -9.11 |
| 17 | 4.954 | 36.85 | 46.00 | -9.15 |
| 18 | 1.184 | 36.78 | 46.00 | -9.22 |
| 19 | 2.034 | 36.74 | 46.00 | -9.26 |
| 20 | 0.831 | 36.54 | 46.00 | -9.46 |
| 21 | 1.412 | 36.52 | 46.00 | -9.48 |
| 22 | 9.711 | 40.43 | 50.00 | -9.57 |
| 23 | 1.790 | 36.40 | 46.00 | -9.60 |
| 24 | 5.449 | 40.25 | 50.00 | -9.75 |
| 25 | 3.862 | 36.25 | 46.00 | -9.75 |
| 26 | 0.939 | 36.24 | 46.00 | -9.76 |
| 27 | 0.724 | 36.14 | 46.00 | -9.86 |
| 28 | 0.899 | 36.14 | 46.00 | -9.86 |
| 29 | 9.208 | 40.12 | 50.00 | -9.88 |
| 30 | 0.198 | 43.81 | 53.71 | -9.90 |
| 31 | 1.204 | 36.08 | 46.00 | -9.92 |
| 32 | 0.508 | 36.05 | 46.00 | -9.95 |
| 33 | 2.885 | 36.04 | 46.00 | -9.96 |
| 34 | 2.651 | 36.04 | 46.00 | -9.96 |
| 35 | 2.397 | 36.04 | 46.00 | -9.96 |
| 36 | 2.262 | 36.04 | 46.00 | -9.96 |
| 37 | 0.713 | 36.04 | 46.00 | -9.96 |
| 38 | 1.569 | 35.95 | 46.00 | -10.05 |
| 39 | 5.335 | 39.95 | 50.00 | -10.05 |
| 40 | 5.197 | 39.95 | 50.00 | -10.05 |
| 41 | 4.748 | 35.95 | 46.00 | -10.05 |
| 42 | 3.438 | 35.94 | 46.00 | -10.06 |
| 43 | 0.662 | 35.94 | 46.00 | -10.06 |
| 44 | 0.995 | 35.94 | 46.00 | -10.06 |
| 45 | 9.608 | 39.93 | 50.00 | -10.07 |

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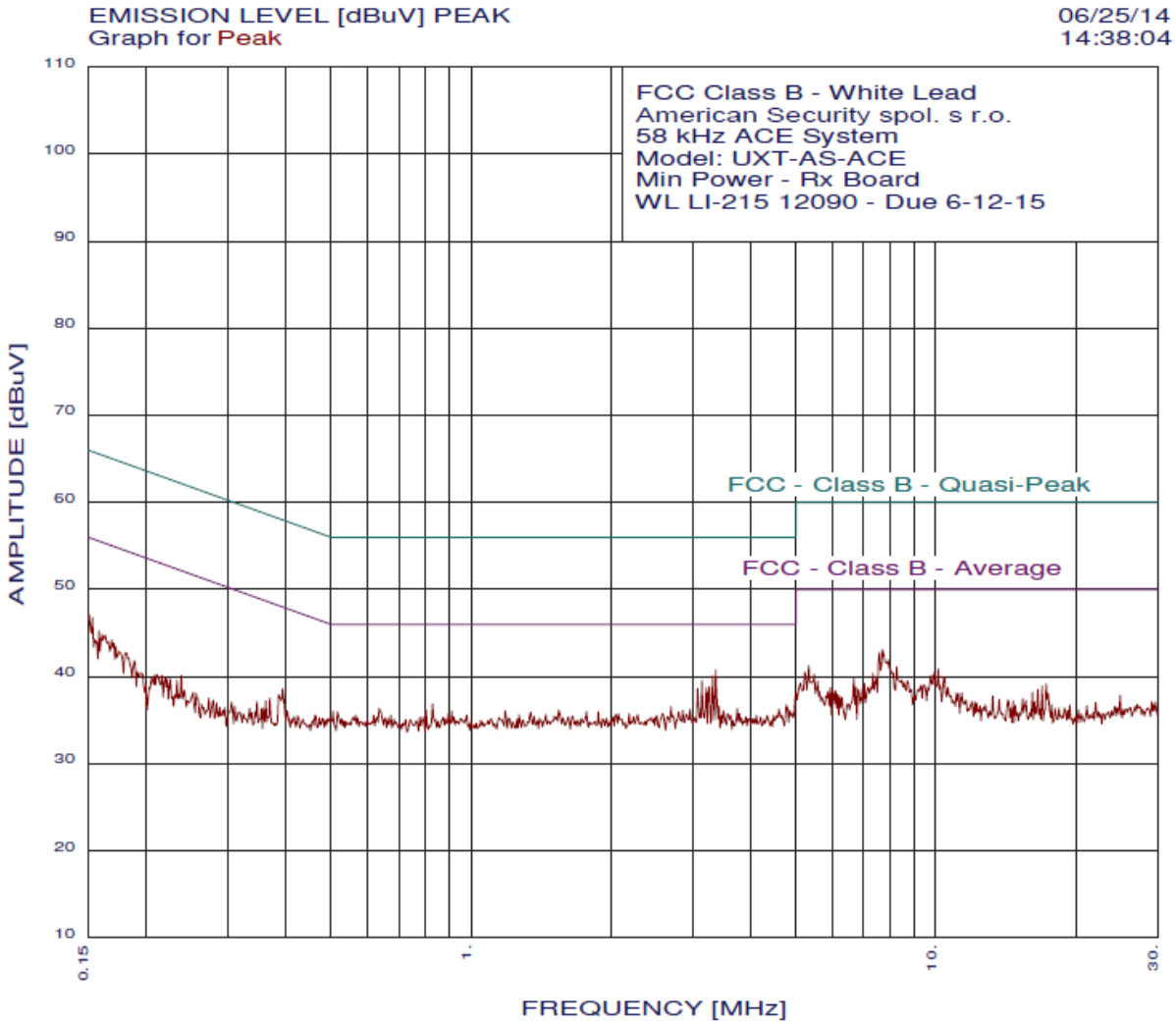
EMISSION LEVEL [dBuV] PEAK
Graph for Peak
06/25/14
14:38:04
FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
WL LI-215 12090 - Due 6-12-15
FCC - Class B - Quasi-Peak
FCC - Class B - Average
AMPLITUDE [dBuV]
110
100
90
80
70
60
50
40
30
20
10
0.15
1.
10.
30.
FREQUENCY [MHz]

page 1/1

06/25/14 14:38:04

FCC Class B - White Lead
American Security spol. s r.o.
58 kHz ACE System
Model: UXT-AS-ACE
Min Power - Rx Board
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kyle Fujimoto

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45 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 1.00 dB, Curve : Peak

| Peak# | Freq(MHz) | Amp(dBuV) | Limit(dB) | Delta(dB) |
|---|---|---|---|---|
| 1 | 3.365 | 40.74 | 46.00 | -5.26 |
| 2 | 3.311 | 40.04 | 46.00 | -5.96 |
| 3 | 3.141 | 39.54 | 46.00 | -6.46 |
| 4 | 7.689 | 43.09 | 50.00 | -6.91 |
| 5 | 3.260 | 38.84 | 46.00 | -7.16 |
| 6 | 7.567 | 42.79 | 50.00 | -7.21 |
| 7 | 3.209 | 38.74 | 46.00 | -7.26 |
| 8 | 3.075 | 38.64 | 46.00 | -7.36 |
| 9 | 5.335 | 41.25 | 50.00 | -8.75 |
| 10 | 8.238 | 41.10 | 50.00 | -8.90 |
| 11 | 0.153 | 46.76 | 55.82 | -9.06 |
| 12 | 10.129 | 40.84 | 50.00 | -9.16 |
| 13 | 0.826 | 36.84 | 46.00 | -9.16 |
| 14 | 4.774 | 36.74 | 46.00 | -9.26 |
| 15 | 3.419 | 36.64 | 46.00 | -9.36 |
| 16 | 0.393 | 38.59 | 47.99 | -9.40 |
| 17 | 5.224 | 40.55 | 50.00 | -9.45 |
| 18 | 2.693 | 36.54 | 46.00 | -9.46 |
| 19 | 9.916 | 40.43 | 50.00 | -9.57 |
| 20 | 7.333 | 40.39 | 50.00 | -9.61 |
| 21 | 3.741 | 36.34 | 46.00 | -9.66 |
| 22 | 0.634 | 36.34 | 46.00 | -9.66 |
| 23 | 5.479 | 40.25 | 50.00 | -9.75 |
| 24 | 4.600 | 36.24 | 46.00 | -9.76 |
| 25 | 2.963 | 36.24 | 46.00 | -9.76 |
| 26 | 1.544 | 36.15 | 46.00 | -9.85 |
| 27 | 2.855 | 36.14 | 46.00 | -9.86 |
| 28 | 0.801 | 36.14 | 46.00 | -9.86 |
| 29 | 1.184 | 36.08 | 46.00 | -9.92 |
| 30 | 0.505 | 36.05 | 46.00 | -9.95 |
| 31 | 3.492 | 36.04 | 46.00 | -9.96 |
| 32 | 0.909 | 36.04 | 46.00 | -9.96 |
| 33 | 1.772 | 35.99 | 46.00 | -10.01 |
| 34 | 10.403 | 39.95 | 50.00 | -10.05 |
| 35 | 0.516 | 35.95 | 46.00 | -10.05 |
| 36 | 2.796 | 35.94 | 46.00 | -10.06 |
| 37 | 1.879 | 35.91 | 46.00 | -10.09 |
| 38 | 1.345 | 35.91 | 46.00 | -10.09 |
| 39 | 7.450 | 39.79 | 50.00 | -10.21 |
| 40 | 6.664 | 39.77 | 50.00 | -10.23 |
| 41 | 3.565 | 35.74 | 46.00 | -10.26 |
| 42 | 2.582 | 35.74 | 46.00 | -10.26 |
| 43 | 2.190 | 35.74 | 46.00 | -10.26 |
| 44 | 2.077 | 35.74 | 46.00 | -10.26 |
| 45 | 0.895 | 35.74 | 46.00 | -10.26 |

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