FCC PART 15, SUBPART B and C TEST REPORT

for

SINGLE INTELISOCKET

MODEL: IS-301

Prepared for

IBIS NETWORKS 841 BISHOP STREET, STE 1601 HONOLULU, HAWAII 96813

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DATE: MAY 4, 2016

	REPORT		APPENDICES			TOTAL	
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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., 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 certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: Single InteliSocket

> Model: IS-301 S/N: N/A

Product Description: The EUT is a smart socket which meters plug load energy usage and provides device on/off

capability.

Modifications: The EUT was not modified during the testing.

Customer: IBIS Networks

> 828 Bishop Street, Ste 1601 Honolulu, Hawaii 96813

Test Dates: February 1, 4, 5 and 16, 2016

Test Specifications: Emissions requirements

CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247

Test Procedure: ANSI C63.10 and 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, 150 kHz – 30 MHz	The EUT complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.207.
2	Spurious Radiated RF Emissions, 30 MHz – 1000 MHz	The EUT complies with the Class B limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.209
3	Spurious Radiated RF Emissions, 10 kHz – 30 MHz and 1000 MHz – 25000 MHz	The EUT complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.247(d)
4	Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 25 GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d)
5	Emissions produced by the intentional radiator in restricted bands, 10 kHz – 25 GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and section 15.247 (d)
6	DTS Bandwidth	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(2)
7	Peak Power Output	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(3)
8	RF Conducted Antenna Test	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (d)
9	Peak Power Spectral Density from the Intentional Radiator to the Antenna	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e)

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the Single InteliSocket, Model: IS-301. The emissions measurements were performed according to the measurement procedure described in ANSI C63.10 and 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 B specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.247.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

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

IBIS Networks

Michael Pfeffer CEO

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer James Ross Test Engineer

2.4 Date Test Sample was Received

The test sample was received on January 28, 2016.

2.5 Disposition of the Test Sample

The test sample has not been returned to IBIS Networks as of the date of this test report.

2.6 Abbreviations and Acronyms

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

RF Radio Frequency

EMI Electromagnetic Interference EUT Equipment Under Test

P/N Part Number S/N Serial Number HP Hewlett Packard

ITE Information Technology Equipment

CML Corrected Meter Limit

LISN Line Impedance Stabilization Network

N/A Not Applicable

Report Number: **B60216D3**



3. APPLICABLE DOCUMENTS

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

SPEC	TITLE			
FCC Title 47,	FCC Rules - Radio frequency devices (including digital devices) –			
Part 15 Subpart C	Intentional Radiators			
•				
ANSI C63.4 2014	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz			
ANSI C63.10 2013	American National Standard for Testing Unlicensed Wireless Devices			
FCC Title 47, Part 15 Subpart B	FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators			

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration – Emissions

The Single InteliSocket Model: IS-301 (EUT) was connected to a lampstand. The EUT was continuously transmitting.

The EUT was tested in the X, Y and Z axis. The X orientation is when the EUT is parallel to the ground. The Y orientation is when the EUT is perpendicular to the ground mounted vertically. The Z orientation is when the EUT is perpendicular to the ground mounted horizontally.

The voltage was varied $\pm 15\%$; the transmitting signal amplitude ad frequency did not vary.

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

<u>Cable 1</u> This is a 1-meter unshielded cable connecting the lampstand to the EUT. The cable has a 2-prong male AC connector at the EUT end and is hard wired into the lampstand.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
SINGLE INTELISOCKET	IBIS NETWORKS	IS-301	N/A	2AECN301
LAMPSTAND	N/A	N/A	N/A	N/A

5.2 Emissions Test Equipment

MANU- FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE			
RF RADIATED EMISSIONS TEST EQUIPMENT							
TDK RF Solutions, Inc.	9.22	700145	N/A	N/A			
Hewlett Packard	p6716f	MXX1030PX0	N/A	N/A			
Hewlett Packard	52031a	3CQ046N3MG	N/A	N/A			
Agilent Technologies	N9038A	MY51100115	April 3, 2015	1 Year			
Com-Power	AC-220	61060	September 3, 2015	1 Year			
Com-Power	PA-118	551024	March 6, 2015	2 Year			
Com-Power	PA-840	711013	May 13, 2014	2 Year			
Com-Power	AL-130	17089	February 6, 2015	2 Year			
Com-Power	AH-118	071175	February 26, 2014	2 Year			
Com-Power	AH-826	0071957	N/A	N/A			
Com Power	AM-100	N/A	N/A	N/A			
Sunol Sciences Corporation	SC110V	112213-1	N/A	N/A			
Sunol Sciences Corporation	2011VS	N/A	N/A	N/A			
Sunol Sciences Corporation	TWR95-4	112213-3	N/A	N/A			
RF CONDUCTE	ED EMISSIONS	TEST EQUIPME	NT – LAB A				
Compatible Electronics	11CD	N/A	N/A	N/A			
Com-Power	LI-215	12082	June 9, 2015	1 Year			
Com-Power	LI-215	12090	June 9, 2015	1 Year			
Com-Power	252A910	1	October 14, 2015	1 Year			
Hewlett Packard	D5258A	TW74500641	N/A	N/A			
Hewlett Packard	4530	US91912319	N/A	N/A			
Hewlett Packard	8566B	3638A08768	May 27, 2015	1 Year			
Hewlett Packard	85662A	2648A15285	May 27, 2015	1 Year			
Hewlett Packard	85650A	2430A00424	May 27, 2015	1 Year			
	TDK RF Solutions, Inc. Hewlett Packard Hewlett Packard Agilent Technologies Com-Power Com-Power Com-Power Com-Power Com-Power Com-Power Sunol Sciences Corporation Sunol Sciences Corporation Sunol Sciences Corporation FF CONDUCTE Compatible Electronics Com-Power Com-Power Hewlett Packard Hewlett Packard Hewlett Packard	RF RADIATED EMISSIO TDK RF Solutions, Inc. Hewlett Packard p6716f Hewlett Packard 52031a Agilent Technologies N9038A Com-Power AC-220 Com-Power PA-118 Com-Power PA-840 Com-Power AH-130 Com-Power AH-118 Com-Power AH-100 Sunol Sciences Corporation Sunol Sciences Corporation Sunol Sciences Corporation FF CONDUCTED EMISSIONS Com-Power LI-215 Com-Power LI-215 Com-Power D5258A Hewlett Packard A566B Hewlett Packard 8566B Hewlett Packard 85662A	RF RADIATED EMISSIONS TEST EQUIPM TDK RF Solutions, Inc. 9.22 700145 Hewlett Packard p6716f MXX1030PX0 Hewlett Packard 52031a 3CQ046N3MG Agilent Technologies N9038A MY51100115 Com-Power AC-220 61060 Com-Power PA-118 551024 Com-Power PA-840 711013 Com-Power AH-130 17089 Com-Power AH-118 071175 Com-Power AH-826 0071957 Com Power AM-100 N/A Sunol Sciences Corporation SC110V 112213-1 Sunol Sciences Corporation 2011VS N/A RF CONDUCTED EMISSIONS TEST EQUIPME N/A Compatible Electronics 11CD N/A Com-Power LI-215 12082 Com-Power LI-215 12090 Com-Power LI-215 12090 Com-Power 252A910 1 Hewlett Packard 4530 US91912319 <td>RF RADIATED EMISSIONS TEST EQUIPMENT TDK RF Solutions, Inc. 9.22 700145 N/A Hewlett Packard p6716f MXX1030PX0 N/A Hewlett Packard 52031a 3CQ046N3MG N/A Agilent Technologies N9038A MY51100115 April 3, 2015 Com-Power AC-220 61060 September 3, 2015 Com-Power PA-118 551024 March 6, 2015 Com-Power PA-840 711013 May 13, 2014 Com-Power AL-130 17089 February 6, 2015 Com-Power AH-826 0071957 N/A Com-Power AM-100 N/A N/A Sunol Sciences Corporation SC110V 112213-1 N/A Sunol Sciences Corporation TWR95-4 112213-3 N/A Street CONDUCTED EMISSIONS TEST EQUIPMENT - LAB A N/A N/A Com-Power LI-215 12082 June 9, 2015 Com-Power LI-215 12090 June 9, 2015 Com-Power LI-215</td>	RF RADIATED EMISSIONS TEST EQUIPMENT TDK RF Solutions, Inc. 9.22 700145 N/A Hewlett Packard p6716f MXX1030PX0 N/A Hewlett Packard 52031a 3CQ046N3MG N/A Agilent Technologies N9038A MY51100115 April 3, 2015 Com-Power AC-220 61060 September 3, 2015 Com-Power PA-118 551024 March 6, 2015 Com-Power PA-840 711013 May 13, 2014 Com-Power AL-130 17089 February 6, 2015 Com-Power AH-826 0071957 N/A Com-Power AM-100 N/A N/A Sunol Sciences Corporation SC110V 112213-1 N/A Sunol Sciences Corporation TWR95-4 112213-3 N/A Street CONDUCTED EMISSIONS TEST EQUIPMENT - LAB A N/A N/A Com-Power LI-215 12082 June 9, 2015 Com-Power LI-215 12090 June 9, 2015 Com-Power LI-215			

6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for emissions test location.

6.2 EUT Mounting, Bonding and Grounding

For frequencies 1 GHz and below: The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

For frequencies above 1 GHz: The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 1.5 meters above the ground plane.

The EUT was grounded via the third wire saftey ground in the AC power plug.

7. CHARACTERISTICS OF THE TRANSMITTER

7.1 Channel Description and Frequencies

The lowest frequency the EUT will use is 2405 MHz and the highest frequency the EUT will use is 2480 MHz. The EUT will be able to be tuned every 5 MHz between the lowest frequency and the highest frequency.

7.2 Antenna Gain

The EUT utilizes a chip antenna.

8. TEST PROCEDURES

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

8.1 RF Emissions

8.1.1 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.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.207.

8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver was used as the measuring meter. Below 1 GHz, a built-in, internal preamplifier was used to increase the sensitivity of the instrument. At frequencies above 1 GHz, external preamplifiers were used. The Com Power Microwave Preamplifier Model: PA-118 was used for frequencies above from 1 GHz to 18 GHz, and the Com Power Microwave Preamplifier Model: PA-840 was used for frequencies above 18 GHz. The EMI Receiver was initially used with the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged by using a duty cycle correction factor.

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

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Loop Antenna
150 kHz to 30 MHz	9 kHz	Loop Antenna
30 MHz to 1 GHz	120 kHz	Combilog Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with 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 gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

8.1.3 RF Emissions Test Results

Table 1.0 CONDUCTED EMISSION RESULTS Single InteliSocket, Model: IS-301

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
0.637(BL)	38.41	46.00	-7.49
0.641(WL)	37.94	46.00	-8.06
2.379(WL)	36.64	46.00	-9.36
0.573(WL)	36.51	46.00	-9.49
2.818(BL)	36.44	46.00	-9.56
3.298(WL)	36.41	46.00	-9.59

Table 2.0 RADIATED EMISSION RESULTS Single InteliSocket, Model: IS-301

Frequency MHz	Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
2483.5 (V)(X-axis)	53.81 (Avg)	54.00	-0.19
2483.5 (H)(Z-axis)	53.64 (Avg)	54.00	-0.36
2390 (V)(X-axis)	51.57 (Avg)	54.00	-2.43
7215 (H)(X-axis)	50.71 (Avg)	54.00	-3.29
7425 (H)(Z-axis)	50.33 (Avg)	54.00	-3.67
7215 (V)(Y-axis)	50.22 (Avg)	54.00	-3.78

Notes:

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

Pk Peak Reading A Average Reading

H Horizontal Polarization V Vertical Polarization

(WL) White Lead

Brea Division 114 Olinda Drive Brea, CA 92823

(714) 579-0500

8.2 DTS Bandwidth

The DTS Bandwidth was measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF output of the EUT. The following steps were performed for measuring the DTS Bandwidth.

- 1. Set RBW = 100 kHz
- 2. Set the video bandwidth (VBW) to equal or greater than 3 times the RBW
- 3. Detector = Peak
- 4. Trace Mode = Max Hold
- 5. Sweep = Auto Couple
- 6. Allow the trace to stabilize
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(2).

8.3 Peak Output Power

The Peak Output Power was measured using the EMI Receiver. The peak output power was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was 8 MHz and the video bandwidth was 50 MHz. The cable loss was also added back into the reading using the reference level offset. The Peak Output Power was then taken.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (b)(3).

8.4 Emissions in Non-Restricted Bands

The emissions in the non-restricted frequency bands measurements were performed using the EMI receiver directly connected to the EUT. The reference level was established by setting the instrument center frequency to DTS channel center frequency. The span was set to ≥ 1.5 times the DTS bandwidth. The RBW was set to 100 kHz and the VBW was set to 300 kHz. A peak detector was used with sweep set to auto. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the level and 20 dB below that was the reference level. For emission level measurement, the center frequency and span were set to encompass the frequency range to be measured. The RBW was set to 100 kHz and the VBW was set to 300 kHz. A peak detector was used with a sweep time set to auto. The number of measurement points were greater than the span/RBW. A max hold trace was used and allowed to fully stabilize. The peak marker function was used to determine the maximum amplitude level. The final qualification data sheets are located in Appendix E.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d).

8.5 RF Band Edges

The RF band edges were taken at 2390 MHz when the EUT was on the low channel and 2483.5 MHz when the EUT was on the high channel using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3 meter test distance. The radiated emissions test procedure as describe in section 8.1.2 of this test report was used to maximize the emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the restricted bands closest to the band edges at 2390 MHz and 2483.5 MHz also meet the limits of section 15.209. Please see the data sheets located in Appendix E.

8.6 Spectral Density Test

The spectrum density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The following steps were performed for measuring the spectral density.

- 1. Set analyzer center frequency to DTS channel center frequency
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to $3 \text{ kHz} \ll \text{RBW} \ll 100 \text{ kHz}$
- 4. Set the VBW >= 3 X RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat..

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (e).

9. CONCLUSIONS

The Single InteliSocket, Model: IS-301, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B, and Subpart C, sections 15.205, 15.209, 15.207, and 15.247.





APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS



LABORATORY ACCREDITATIONS AND RECOGNITIONS



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:

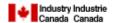


VCCI Support member: Please visit http://www.vcci.jp/vcci_e/



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 Subpart B and FCC 15.247 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.

The EUT was not modified during the testing.





APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

Single InteliSocket Model: IS-301 S/N: N/A

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS AND CHARTS

FIGURE 1: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER

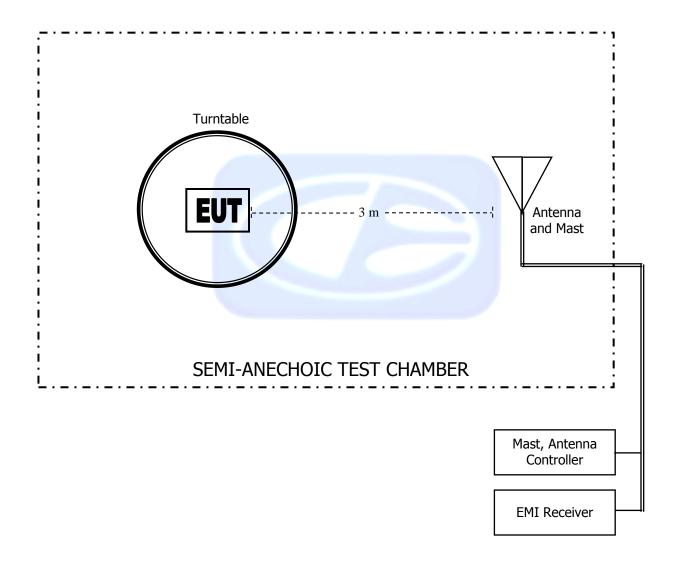
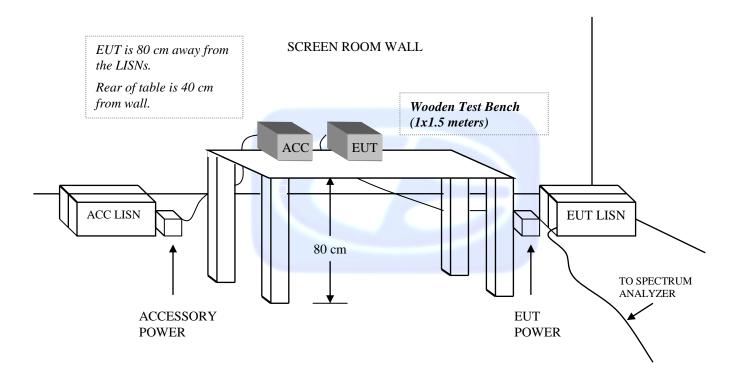


FIGURE 2: CONDUCTED EMISSIONS TEST SETUP



COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	(dB/m) -33.18	18.32
0.01	-34.10	17.40
0.02	-38.65	12.85
0.03	-39.28	12.22
0.04	-40.09	11.41
0.05	-40.85	10.65
0.06	-40.88	10.62
0.07	-41.07	10.43
0.08	-41.04	10.46
0.09	-41.19	10.31
0.1	-41.20	10.30
0.2	-41.52	9.98
0.3	-41.53	9.97
0.4	-41.42	10.08
0.5	-41.53	9.97
0.6	-41.53	9.97
0.7	-41.43	10.07
0.8	-41.23	10.27
0.9	-41.13	10.37
1	-41.14	10.36
2	-40.80	10.70
3	-40.66	10.84
4	-40.61	10.89
5	-40.33	11.17
6	-40.53	10.97
7	-40.47	11.03
8	-40.48	11.02
9	-39.93	11.57
10	-39.81	11.69
15	-43.35	8.15
20	-39.16	12.34
25	-40.24	11.26
30	-43.18	8.32

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: SEPTEMBER 3, 2015

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	24.00	200	13.00
35	24.30	250	15.30
40	25.40	300	18.20
45	21.50	350	17.90
50	22.50	400	18.60
60	15.40	450	19.80
70	12.70	500	21.60
80	11.10	550	22.40
90	13.40	600	23.70
100	13.80	650	24.30
120	15.40	700	24.00
125	15.40	750	24.50
140	13.10	800	24.30
150	17.20	850	26.30
160	13.20	900	26.90
175	14.20	950	26.00
180	14.30	1000	25.60

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: 551024

CALIBRATION DATE: MARCH 6, 2015

EDECLIENCY	EACTOD	EDECHENCY	EACTOD
FREQUENCY	FACTOR	FREQUENCY	FACTOR
(GHz)	(dB)	(GHz)	(dB)
1.0	39.76	6.0	38.77
1.1	40.46	6.5	38.46
1.2	40.05	7.0	38.27
1.3	40.58	7.5	38.77
1.4	39.50	8.0	39.25
1.5	39.92	8.5	38.63
1.6	40.40	9.0	39.58
1.7	40.10	9.5	42.12
1.8	40.49	10.0	38.53
1.9	38.86	11.0	40.21
2.0	41.53	12.0	41.15
2.5	41.05	13.0	40.51
3.0	40.29	14.0	40.32
3.5	40.82	15.0	39.47
4.0	40.88	16.0	39.88
4.5	41.37	17.0	39.79
5.0	40.73	18.0	40.61
5.5	39.05		



COM-POWER AH-826

HORN ANTENNA

S/N: 71957

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7

COM-POWER PA-840

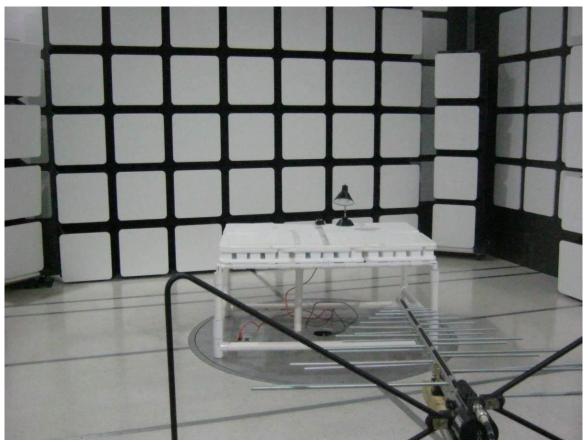
MICROWAVE PREAMPLIFIER

S/N: 711013

CALIBRATION DATE: MAY 13, 2014

FREQUENCY	FACTOR	FREQUENCY	FACTOR
(GHz)	(dB)	(GHz)	(dB)
18.0	25.19	31.0	25.69
19.0	24.48	31.5	25.74
20.0	24.39	32.0	26.35
21.0	24.73	32.5	26.64
22.0	23.49	33.0	25.98
23.0	24.23	33.5	24.68
24.0	24.59	34.0	24.61
25.0	25.32	34.5	23.78
26.0	25.66	35.0	24.74
26.5	25.99	35.5	24.39
27.0	26.26	36.0	23.46
27.5	25.33	36.5	23.71
28.0	24.49	37.0	26.35
28.5	24.74	37.5	23.49
29.0	25.93	38.0	25.42
29.5	26.28	38.5	24.87
30.0	26.17	39.0	22.60
30.5	26.11	39.5	20.57
		40.0	19.15





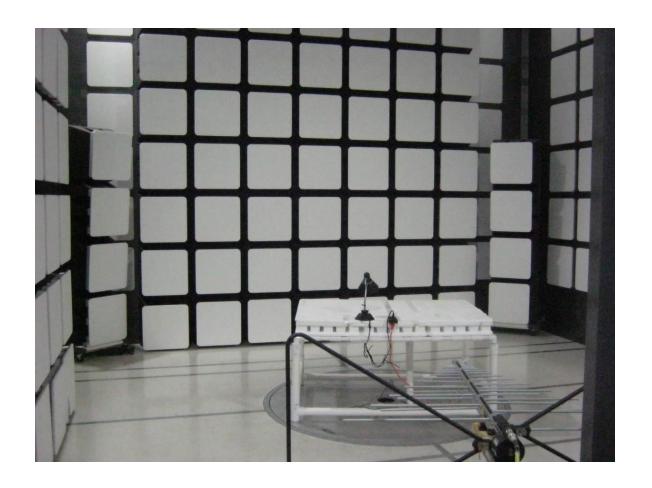
FRONT VIEW

IBIS NETWORKS SINGLE INTELISOCKET MODEL: IS-301

FCC SUBPART B AND C - RADIATED EMISSIONS - BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



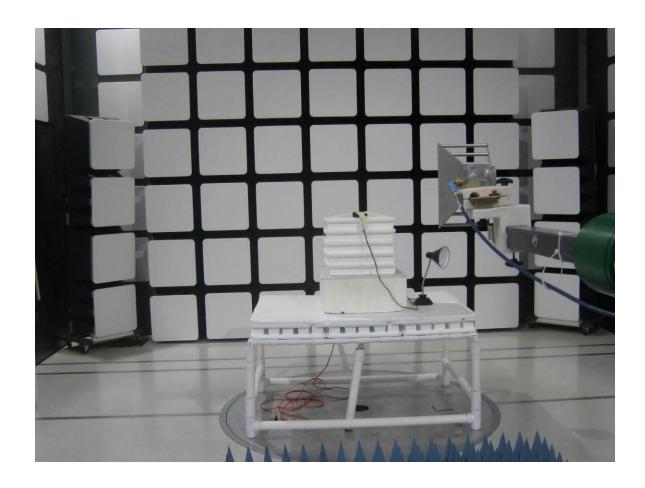


REAR VIEW

IBIS NETWORKS SINGLE INTELISOCKET MODEL: IS-301 FCC SUBPART B AND C - RADIATED EMISSIONS - BELOW 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Single InteliSocket Model: IS-301



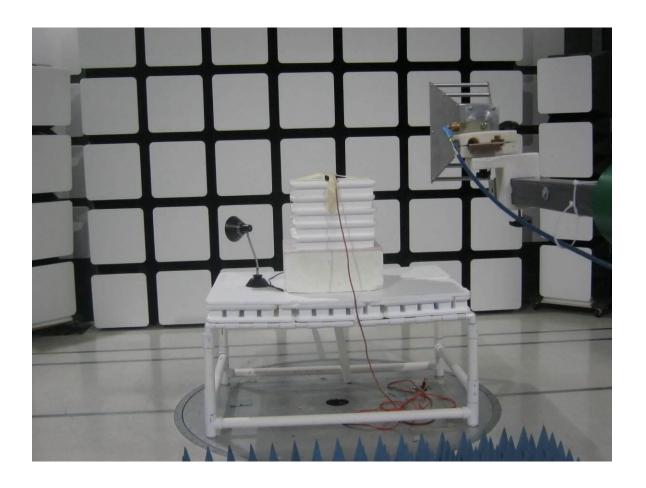
FRONT VIEW

IBIS NETWORKS
SINGLE INTELISOCKET
MODEL: IS-301
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Model: IS-301





REAR VIEW

IBIS NETWORKS SINGLE INTELISOCKET MODEL: IS-301 FCC SUBPART B AND C - RADIATED EMISSIONS - ABOVE 1 GHz

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Single InteliSocket Model: IS-301

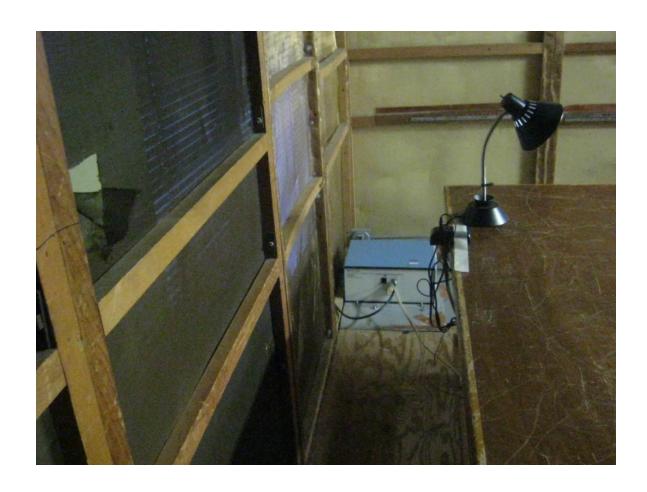


FRONT VIEW

IBIS NETWORKS
SINGLE INTELISOCKET
MODEL: IS-301
FCC SUBPART B AND C – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

ngle InteliSocket Model: IS-301



REAR VIEW

IBIS NETWORKS
SINGLE INTELISOCKET
MODEL: IS-301
FCC SUBPART B AND C – CONDUCTED EMISSIONS

PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

Single InteliSocket Model: IS-301

APPENDIX E

DATA SHEETS

Single InteliSocket Model: IS-301

RADIATED EMISSIONS DATA SHEETS



IBIS Networks Single InteliSocket

Model: IS-301

Configuration: Continuously Transmitting

2405 MHz

Transmit Mode - X-Axis

Date: 02/01/2016

Lab: D

Tested By: Kyle Fujimoto

Comments	Ant. Height (cm)	Table Angle (deg)	Peak / QP / Avg	Margin	Limit	Pol (v/h)	Level (dBuV)	Freq. (MHz)
	178.08	32.50	Peak	-13.83	74.00	V	60.17	4810
	178.08	32.50	Peak	-13.83	54.00	V	40.17	4810
	203.40	120.00	Peak	-7.82	74.00	V	66.18	7215
	203.40	120.00	Avg	-7.82	54.00	V	46.18	7215
No Emissions								9620
Detected								9620
No Emissions								12025
Detected								12025
No Emissions								14430
Detected								14430
No Emissions								16835
Detected								16835
No Emissions								19240
Detected								19240
No Emissions								21645
Detected								21645
No Emissions								24050
Detected								24050



IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2405 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4810	65.36	V	74.00	-8.64	Peak	8.25	161.13	
4810	45.36	V	54.00	-8.64	Peak	8.25	161.13	
7215	70.22	V	74.00	-3.78	Peak	218.50	204.23	
7215	50.22	V	54.00	-3.78	Avg	218.50	204.23	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
4.4.400								
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting **2405 MHz**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4810	58.38	V	74.00	-15.62	Peak	0.00	146.86	
4810	38.38	V	54.00	-15.62	Peak	0.00	146.86	
7215	68.84	V	74.00	-5.16	Peak	220.25	154.44	
7215	48.84	V	54.00	-5.16	Avg	220.25	154.44	
9620								No Emissions
9620								Detected
12025							16-7	No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
21040								Detected
24050								No Emissions
24050								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2405 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4810	61.23	Н	74.00	-12.77	Peak	140.00	178.08	
4810	41.23	Н	54.00	-12.77	Peak	140.00	178.08	
7215	70.71	Н	74.00	-3.29	Peak	311.25	188.77	
7215	50.71	Н	54.00	-3.29	Avg	311.25	188.77	
9620			4					No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430					November 1			Detected
16835								No Emissions
16835								No Emissions Detected
19240 19240								No Emissions Detected
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4810	63.65	Н	74.00	-10.35	Peak	188.75	134.98	
4810	43.65	Н	54.00	-10.35	Peak	188.75	134.98	
7215	66.91	Н	74.00	-7.09	Peak	28.50	182.98	
7215	46.91	Н	54.00	-7.09	Avg	28.50	182.98	
9620								No Emissions
9620								Detected
12025							Aller Area	No Emissions
12025								Detected
14430								No Emissions
14430					- wan in the			Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
0404=								
21645								No Emissions
21645								Detected
24050								No Emissions
24050								No Emissions
24050								Detected



IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2405 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4810	64.47	Н	74.00	-9.53	Peak	255.25	196.17	
4810	44.47	Н	54.00	-9.53	Peak	255.25	196.17	
7215	70.05	Н	74.00	-3.96	Peak	77.75	194.44	
7215	50.05	Н	54.00	-3.96	Avg	77.75	194.44	
9620			1					No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Comments	Ant. Height (cm)	Table Angle (deg)	Peak / QP / Avg	Margin	Limit	Pol (v/h)	Level (dBuV)	Freq. (MHz)
	172.59	116.00	Peak	-8.16	74.00	V	65.84	4880
	172.59	116.00	Peak	-8.16	54.00	V	45.84	4880
	146.68	139.25	Peak	-7.23	74.00	V	66.77	7320
	146.68	139.25	Avg	-7.23	54.00	V	46.77	7320
No Emissions								9760
Detected								9760
No Emissions								12200
Detected								12200
No Emissions					-			14640
Detected								14640
No Emissions								17080
Detected								17080
No Emissions								19520
Detected								19520
No Emissions								21960
Detected								21960
No Emissions								24400
Detected								24400





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880	65.75	V	74.00	-8.25	Peak	5.00	163.34	
4880	45.75	V	54.00	-8.25	Peak	5.00	163.34	
7320	55.94	V	74.00	-18.06	Peak	25.25	204.95	
7320	35.94	V	54.00	-18.06	Avg	25.25	204.95	
9760								No Emissions
9760								Detected
12200							100	No Emissions
12200								Detected
14640								No Emissions
14640					Walle And Committee			Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
04400								
24400								No Emissions
24400								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880	65.95	V	74.00	-8.05	Peak	355.00	105.01	
4880	45.95	V	54.00	-8.05	Peak	355.00	105.01	
7320	66.22	V	74.00	-7.78	Peak	331.50	176.17	
7320	46.22	V	54.00	-7.78	Avg	331.50	176.17	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Freq.	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880	60.44	Н	74.00	-13.56	Peak	299.50	265.55	
4880	40.44	Н	54.00	-13.56	Peak	299.50	265.55	
7320	68.18	Н	74.00	-5.82	Peak	174.00	222.98	
7320	48.18	Н	54.00	-5.82	Avg	174.00	222.98	
9760						-7		No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Freq.	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880	63.43	Н	74.00	-10.57	Peak	158.25	193.55	
4880	43.43	Н	54.00	-10.57	Peak	158.25	193.55	
7320	67.03	Н	74.00	-6.97	Peak	165.50	144.41	
7320	47.03	Н	54.00	-6.97	Avg	165.50	144.41	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640					And the second			Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2440 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880	56.93	Н	74.00	-17.07	Peak	256.25	186.26	
4880	36.93	Н	54.00	-17.07	Peak	256.25	186.26	
7320	69.07	Н	74.00	-4.93	Peak	32.25	115.22	
7320	49.07	Н	54.00	-4.93	Avg	32.25	115.22	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2475 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4950	65.90	V	74.00	-8.10	Peak	64.75	186.80	
4950	45.90	V	54.00	-8.10	Peak	64.75	186.80	
7425	68.90	V	74.00	-5.10	Peak	262.25	185.07	
7425	48.90	V	54.00	-5.10	Avg	262.25	185.07	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting **2475 MHz**

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4950	62.89	V	74.00	-11.11	Peak	303.25	126.98	
4950	42.89	V	54.00	-11.11	Peak	303.25	126.98	
7425	65.69	V	74.00	-8.31	Peak	196.00	139.76	
7425	45.69	V	54.00	-8.31	Avg	196.00	139.76	
9900			4					No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto Configuration: Continuously Transmitting

2475 MHz

4950 63.80 V 74.00 -10.20 Peak 220.75 139.10 4950 43.80 V 54.00 -10.20 Peak 220.75 139.10 7425 64.10 V 74.00 -9.90 Peak 0.00 126.80 7425 44.10 V 54.00 -9.90 Avg 0.00 126.80 9900 Peak No Emissions Peak No Emissions Peak 12375 Peak No Emissions Peak No Emissions 12375 Peak 0.00 126.80 Peak 14850 Peak No Emissions Peak No Emissions 17325 Peak Peak 0.00 126.80 Peak No Emissions 19800 Peak 0.00	Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
7425 64.10 V 74.00 -9.90 Peak 0.00 126.80 7425 44.10 V 54.00 -9.90 Avg 0.00 126.80 9900 Image: Control of the control of	4950	63.80	V	74.00	-10.20	Peak	220.75	139.10	
7425 44.10 V 54.00 -9.90 Avg 0.00 126.80 9900 No Emissions Detected 12375 No Emissions Detected 14850 No Emissions Detected 17325 No Emissions No Emissions 17325 No Emissions Detected 19800 No Emissions Detected 22275 No Emissions No Emissions	4950	43.80	V	54.00	-10.20	Peak	220.75	139.10	
7425 44.10 V 54.00 -9.90 Avg 0.00 126.80 9900 Image: Control of the control of th	7425	64 10	V	74 00	-9 90	Peak	0.00	126.80	
9900 Detected 12375 No Emissions 12375 Detected 14850 No Emissions 14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions								1	
9900 Detected 12375 No Emissions 12375 Detected 14850 No Emissions 14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions	9900								No Emissions
12375 Detected 14850 No Emissions 14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions									
12375 Detected 14850 No Emissions 14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions	12375								No Emissions
14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions									
14850 Detected 17325 No Emissions 17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions	14850			-					No Emissions
17325 Detected 19800 No Emissions 19800 Detected 22275 No Emissions									Detected
19800 No Emissions 19800 Detected 22275 No Emissions	17325								No Emissions
19800 Detected 22275 No Emissions	17325								Detected
22275 No Emissions	19800								No Emissions
	19800								Detected
	22275								No Emissions
22275 Detected	22275								Detected
24750 No Emissions	24750								No Emissions
24750 Detected	24750								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2475 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4950	62.59	Н	74.00	-11.41	Peak	54.25	169.01	
4950	42.59	Н	54.00	-11.41	Peak	54.25	169.01	
7425	67.52	Н	74.00	-6.48	Peak	284.00	183.76	
7425	47.52	Н	54.00	-6.48	Avg	284.00	183.76	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2475 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4950	64.48	Н	74.00	-9.52	Peak	160.50	171.88	
4950	44.48	Н	54.00	-9.52	Peak	160.50	171.88	
7425	63.53	Н	74.00	-10.47	Peak	148.50	156.59	
7425	43.53	Н	54.00	-10.47	Avg	148.50	156.59	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

Comments	Ant. Height (cm)	Table Angle (deg)	Peak / QP / Avg	Margin	Limit	Pol (v/h)	Level (dBuV)	Freq. (MHz)
	130.86	279.75	Peak	-9.74	74.00	Н	64.26	4950
	130.86	279.75	Peak	-9.74	54.00	Н	44.26	4950
	114.26	61.00	Peak	-3.67	74.00	Н	70.33	7425
	114.26	61.00	Avg	-3.67	54.00	Н	50.33	7425
No Emissions		- 7						9900
Detected						-		9900
No Emissions								12375
Detected	9							12375
No Emissions								14850
Detected								14850
No Emissions								17325
Detected								17325
No Emissions								19800
Detected								19800
No Emissions								22275
Detected								22275
No Emissions								24750
Detected								24750





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2480 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960	52.88	V	74.00	-21.12	Peak	7.00	175.64	
4960	32.88	V	54.00	-21.12	Peak	7.00	175.64	
7440	56.74	V	74.00	-17.26	Peak	198.75	185.26	
7440	36.74	V	54.00	-17.26	Avg	198.75	185.26	
9920								No Emissions
9920								Detected
12400							10.00	No Emissions
12400								Detected
14880								No Emissions
14880					Vanin da Cara			Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
2000-								
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected
2-1000								Dottottou
				<u> </u>]	<u> </u>		





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto Configuration: Continuously Transmitting

2480 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960	50.47	V	74.00	-23.53	Peak	307.50	150.20	
4960	30.47	V	54.00	-23.53	Peak	307.50	150.20	
7440	57.66	V	74.00	-16.34	Peak	355.00	150.20	
7440	37.66	V	54.00	-16.34	Avg	355.00	150.20	
9920						- 7		No Emissions
9920		_						Detected
12400								No Emissions
12400								Detected
14880								No Emissions
14880								Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting **2480 MHz**

4960	(dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4300	51.47	V	74.00	-22.53	Peak	199.00	150.20	
4960	31.47	V	54.00	-22.53	Peak	199.00	150.20	
7440	58.64	V	74.00	-15.36	Peak	355.00	152.29	
	38.64	V	54.00	-15.36	Avg	355.00	152.29	
9920			-					No Emissions
9920								Detected
12400								No Emissions
12400								Detected
14880			-					No Emissions
14880								Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

2480 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960	48.86	Ι	74.00	-25.14	Peak	55.25	175.64	
4960	28.86	Н	54.00	-25.14	Peak	55.25	175.64	
7440	57.42	Н	74.00	-16.58	Peak	286.25	180.58	
7440	37.42	Н	54.00	-16.58	Avg	286.25	180.58	
9920								No Emissions
9920								Detected
12400								No Emissions
12400								Detected
14880			-					No Emissions
14880					your Assessment			Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting **2480 MHz**

4000	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960	52.46	Η	74.00	-21.54	Peak	86.25	161.37	
4960	32.46	Н	54.00	-21.54	Peak	86.25	161.37	
7440	56.20	Н	74.00	-17.80	Peak	98.75	185.25	
	36.20	Н	54.00	-17.80	Avg	989.75	185.25	
9920								No Emissions
9920								Detected
12400								No Emissions
12400								Detected
14880			-					No Emissions
14880								Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected





IBIS Networks Date: 02/01/2016

Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto Configuration: Continuously Transmitting

2480 MHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960	51.59	Η	74.00	-22.41	Peak	26.00	150.20	
4960	31.59	Н	54.00	-22.41	Peak	26.00	150.20	
7440	55.16	Н	74.00	-18.84	Peak	171.50	153.25	
7440	35.16	Н	54.00	-18.84	Avg	171.50	153.25	
9920								No Emissions
9920								Detected
12400								No Emissions
12400								Detected
14880								No Emissions
14880								Detected
17360								No Emissions
17360								Detected
19840								No Emissions
19840								Detected
22320								No Emissions
22320								Detected
24800								No Emissions
24800								Detected

Report Number: **B60216D3 FCC Part 15 Subpart B** and **FCC Section 15.247** Test Report *Single InteliSocket*

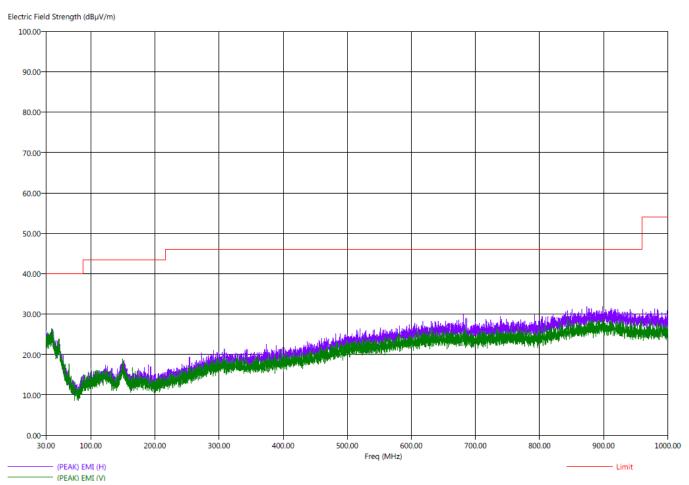
2/4/2016 6:54:12 PM Sequence: Preliminary Scan

Model: IS-301

Title: Pre-Scan - FCC Class B
File: Agilent - Radiated Pre-Scan 30-1000Mhz - One Socket Unit - 02-04-16.set
Operator: Kyle Fujimoto
EUT Type: Single InteliSocket
EUT Condition: Continuously Transmitting - X-Axis
Comments: Customer: IBIS Networks

Model: IS-301

FCC Class B



No additional emissions, except for harmonics, were found between 10 kHz – 30 MHz and 1 GHz – 25 GHz.



Report Number: **B60216D3 FCC Part 15 Subpart B** and **FCC Section 15.247** Test Report

Single InteliSocket Model: IS-301

Title: Radiated Final - 30-1000 MHz - FCC Class B
File: Agilent - Radiated Final Scan - 30-1000Mhz - One Socket Unit - 02-04-16.set
Operator: Kyle Fujimoto
EUT Type: Single IntelliSocket
EUT Condition: Continuously Transmitting - Z-Axis Worst Case
Comments: Customer: IBIS Networks
Model: IS-301

2/4/2016 7:29:17 PM Sequence: Final Measurements

FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Agl (deg)	Twr Ht (cm)
33.60	н	26.16	21.93	-13.84	-18.07	40.00	24.22	0.38	220.50	401.01
33.90	H	25.37	21.98	-14.63	-18.02	40.00	24.24	0.38	343.25	160.71
35.70	н	26.59	22.25	-13.41	-17.75	40.00	24.49	0.40	153.00	400.89
37.90	V	27.96	22.86	-12.04	-17.14	40.00	24.98	0.42	91.75	384.35
38.40	V	27.26	22.94	-12.74	-17.06	40.00	25.02	0.42	232.00	287.28
42.00	н	26.23	21.67	-13.77	-18.33	40.00	23.79	0.45	82.50	127.94
49.10	Н	24.28	20.18	-15.72	-19.82	40.00	22.36	0.50	72.25	348.83
51.10	V	24.52	19.72	-15.48	-20.28	40.00	21.61	0.51	107.75	191.58







Report Number: **B60216D3 FCC Part 15 Subpart B** and **FCC Section 15.247** Test Report Single InteliSocket

ngle InteliSocket Model: IS-301

-6 dB BANDWIDTH

DATA SHEETS



-6 dB Bandwidth - Low Channel - Model: IS-301



-6 dB Bandwidth - Middle Channel - Model: IS-301



-6 dB Bandwidth - High Channel(2475 MHz) - Model: IS-301



-6 dB Bandwidth - High Channel(2480 MHz) - Model: IS-301

SPECTRAL DENSITY OUTPUT

DATA SHEETS



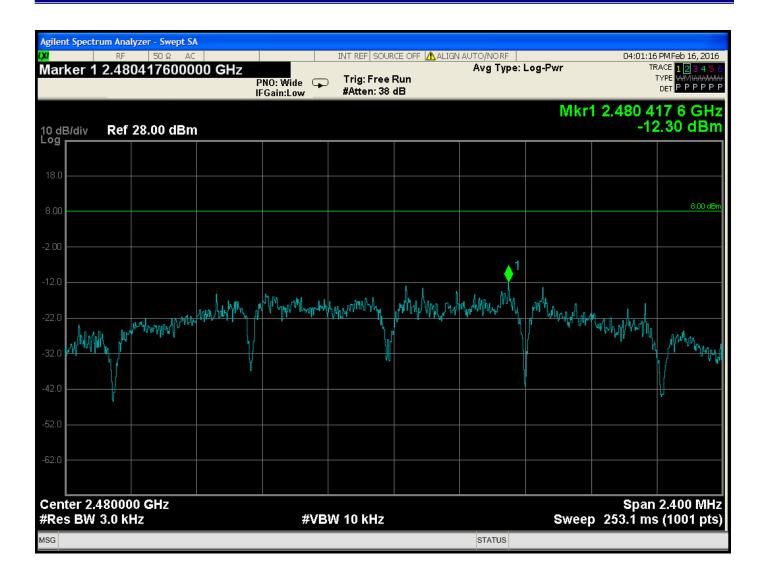
Spectral Density - Low Channel - Model: IS-301



Spectral Density - Middle Channel - Model: IS-301



Spectral Density - High Channel(2475 MHz) - Model: IS-301



Spectral Density - High Channel(2480 MHz) - Model: IS-301



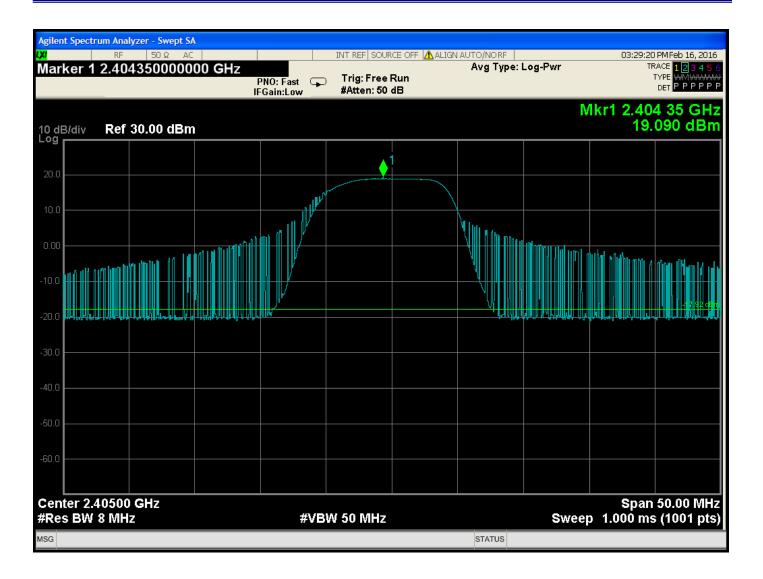


Report Number: **B60216D3 FCC Part 15 Subpart B** and **FCC Section 15.247** Test Report Single InteliSocket

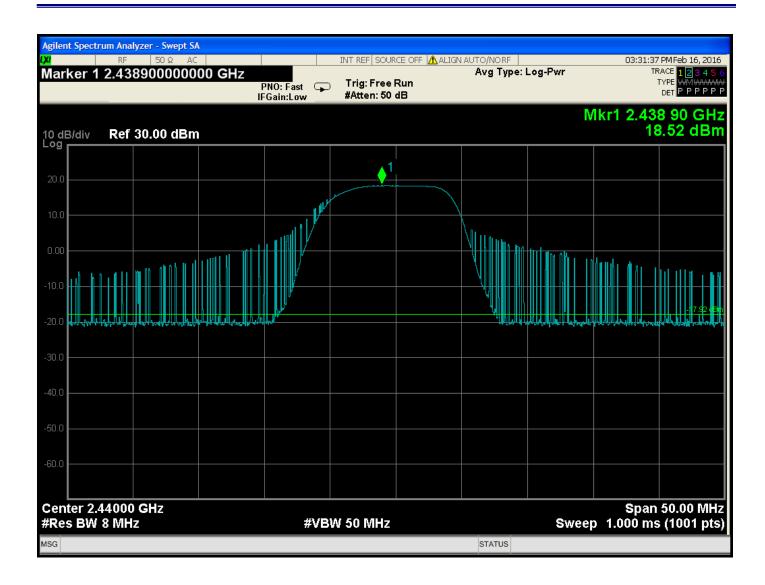
gle InteliSocket Model: IS-301

PEAK POWER

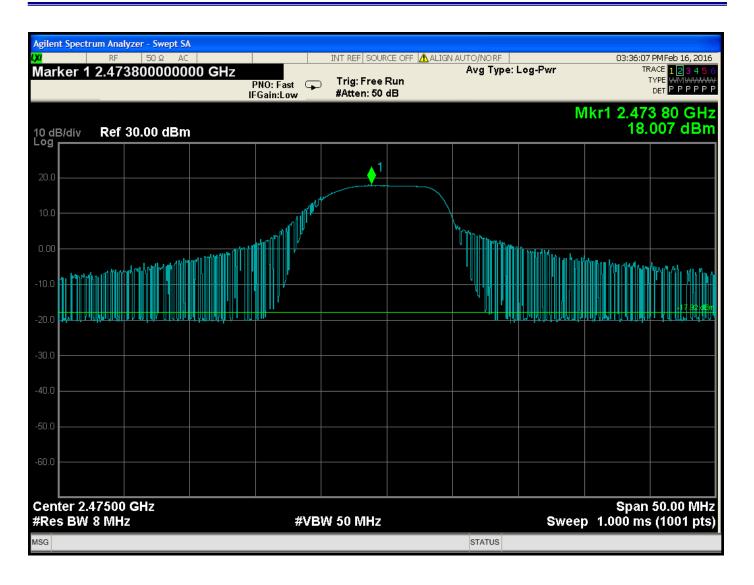
DATA SHEETS



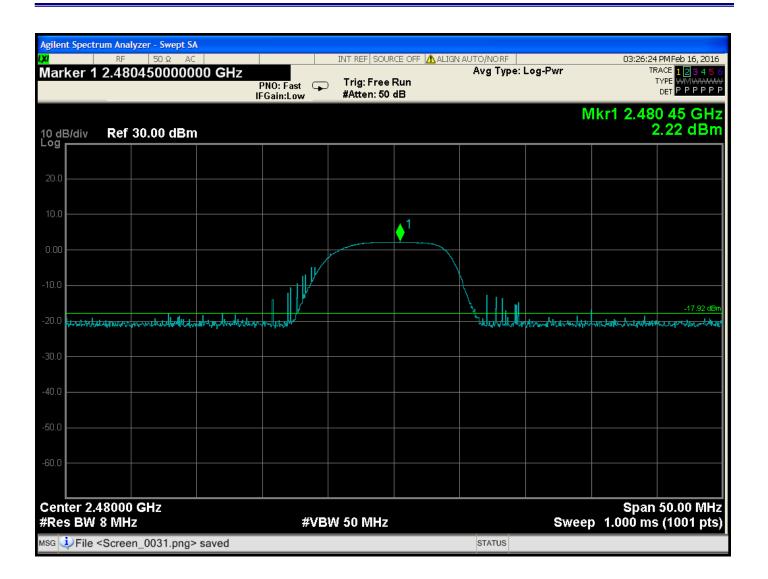
Peak Power Output - Low Channel - Model: IS-301



Peak Power Output - Middle Channel - Model: IS-301



Peak Power Output - High Channel(2475 MHz) - Model: IS-301



Peak Power Output - High Channel(2480 MHz) - Model: IS-301

BAND EDGES

DATA SHEETS



Date: 02/04/2016

Tested By: Kyle Fujimoto

Lab: D



FCC 15.247

IBIS Networks

Single InteliSocket Model: IS-301

Configuration: Continuously Transmitting

2405 MHz

Fundamental Readings

	I I		l .	ī			ī.		
Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments	
2405	108.85	V			Peak	147.25	142.56	Fundamental @ 2405 MHz	
2405	88.85	V			Avg	147.25	142.56	X-Axis - Worst Case	
2390	71.57	V	74.00	-2.43	Peak	147.25	142.56	Band Edge	
2390	51.57	V	54.00	-2.43	Avg	147.25	142.56	X-Axis - Worst Case	
2405	106.89	H			Peak	181.75	239.76	Fundamental @ 2405 MHz	
2405	86.89	Н			Avg	181.75	239.76	Z-Axis - Worst Case	
2390	68.17	Н	74.00	-5.83	Peak	181.75	239.76	Band Edge	
2390	48.17	H	54.00	-5.83	Avg	181.75	239.76	Z-Axis - Worst Case	
					- Avair (i.)				

Model: IS-301



Date: 02/04/2016

Tested By: Kyle Fujimoto

Lab: D



FCC 15.247

IBIS Networks
Single InteliSocket

Model: IS-301

Configuration: Continuously Transmitting

2475 MHz

Fundamental Readings

Freq.	Level	Pol			Peak / QP /	Table Angle	Ant. Height	_
(MHz)	(dBuV)	(v/h)	Limit	Margin	Avg	(deg)	(cm)	Comments
2475	105.41	V			Peak	133.25	158.44	Fundamental @ 2475 MHz
2475	85.41	V			Avg	133.25	158.44	X-Axis - Worst Case
2483.5	73.81	V	74.00	-0.19	Peak	133.25	158.44	Band Edge
2483.5	53.81	V	54.00	-0.19	Avg	133.25	158.44	X-Axis - Worst Case
2475	105.772	Ι	-		Peak	69.01	158.44	Fundamental @ 2475 MHz
2475	85.77	Н		/	Avg	69.01	158.44	Z-Axis - Worst Case
2483.5	73.639	Н	74.00	-0.36	Peak	69.01	158.44	Band Edge
2483.5	53.639	Н	54.00	-0.36	Avg	69.01	158.44	Z-Axis - Worst Case
					(See 11 1-7 1)			





FCC 15.247

IBIS Networks Date: 02/04/2016

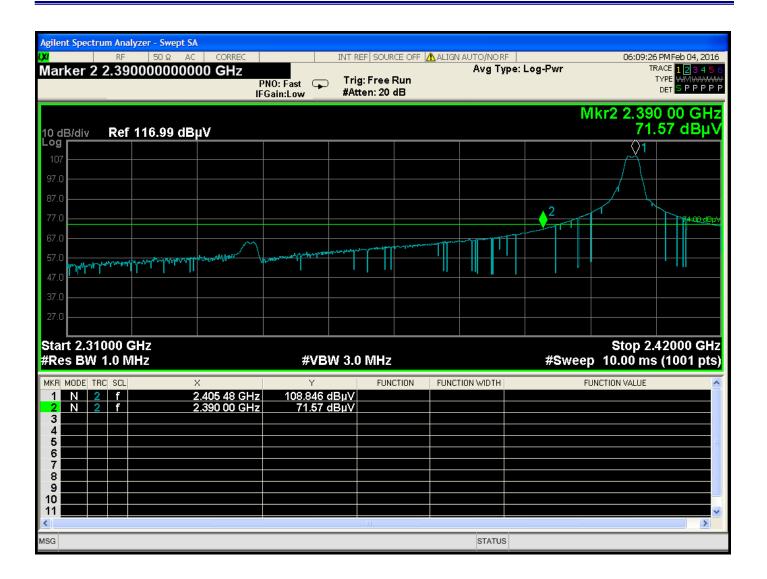
Single InteliSocket Lab: D

Model: IS-301 Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

High Channel - 2480 MHz Fundamental Readings

Freq. (MHz) 2480 2480	Level (dBuV) 89.727 69.727	Pol (v/h) V	Limit 	Margin 	Peak / QP / Avg Peak Avg	Table Angle (deg) 314.75 314.75	Ant. Height (cm) 241.49 241.49	Comments Fundamental @ 2480 MHz X-Axis - Worst Case	
2483.5 2483.5	64.967 44.967	V	74.00 54.00	-9.03 -9.03	Peak Avg	314.75 314.75	241.49 241.49	Band Edge X-Axis - Worst Case	
2480 2480	88.84 68.84	H H			Peak Avg	189.75 189.75	206.14	Fundamental @ 2480 MHz Z-Axis - Worst Case	
2483.5 2483.5	64.29 44.29	H H	74.00 54.00	-9.71 -9.71	Peak Avg	189.75 189.75	206.14	Band Edge Z-Axis - Worst Case	

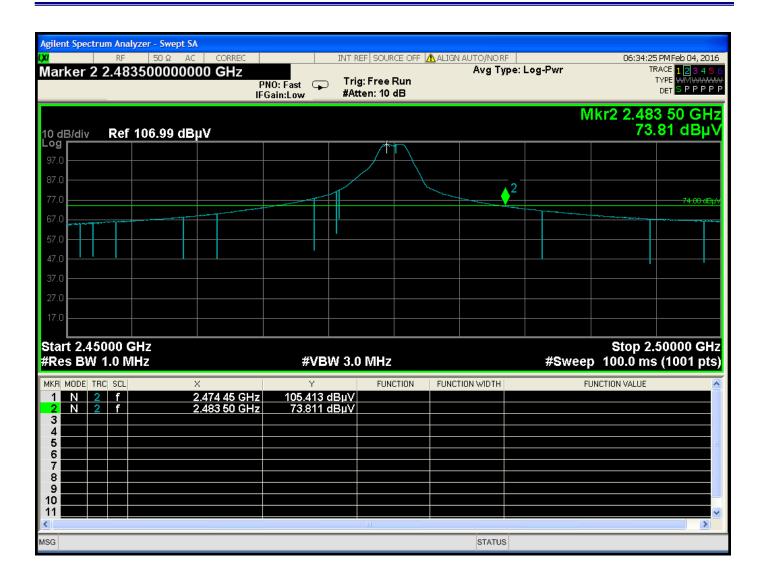


Band Edge - Low Channel - Vertical - X-Axis - Worst Case - Model: IS-301

Model: IS-301



Band Edge - Low Channel - Horizontal - Z-Axis - Worst Case - Model: IS-301



Band Edge - High Channel (2475 MHz) - Vertical - X-Axis - Worst Case - Model: IS-301

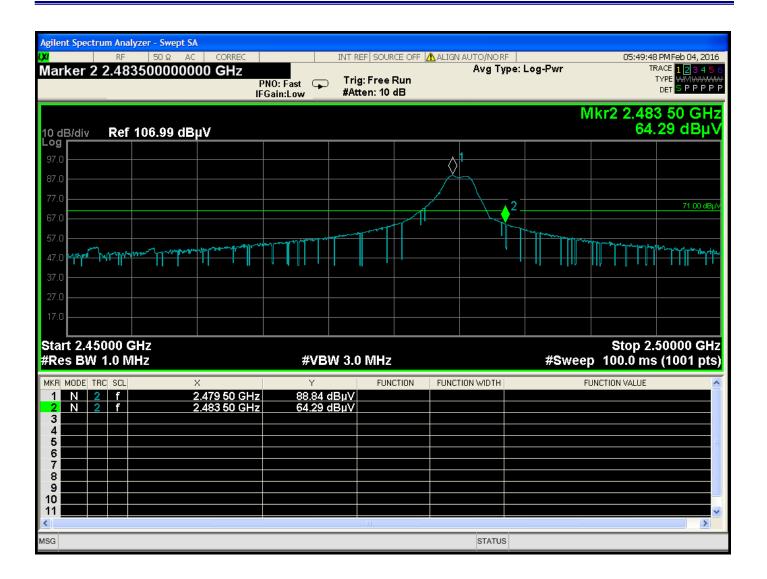
Model: IS-301

Agilent Spectrum Analyzer - Swept SA 06:42:10 PMFeb 04, 2016 INT REF SOURCE OFF ALIGN AUTO/NORF TRACE 1 2 3 4 5 Marker 1 2.474450000000 GHz Avg Type: Log-Pwr Trig: Free Run TYPE PNO: Fast SPPPPP DET #Atten: 10 dB IFGain:Low Mkr1 2.474 45 GHz 105.772 dBμV Ref 106.99 dBµV 10 dB/div 87.0 \Diamond^2 67.0 57.0 Stop 2.50000 GHz Start 2.45000 GHz #Res BW 1.0 MHz **#VBW 3.0 MHz** #Sweep 100.0 ms (1001 pts) FUNCTION VALUE MKR MODE TRC SCL FUNCTION FUNCTION WIDTH 2.474 45 GHz 2.483 50 GHz 105.772 dBμV 73.639 dBμV Ν 8

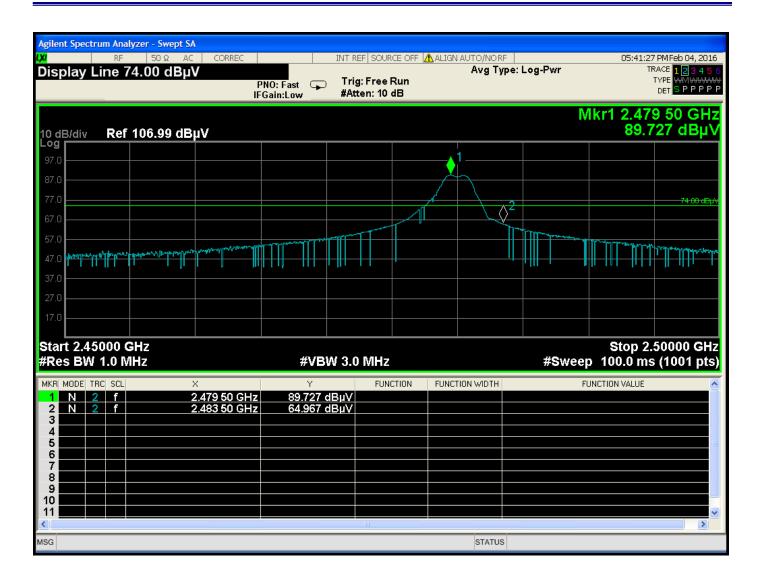
Band Edge - High Channel(2475 MHz) - Horizontal - Z-Axis - Worst Case - Model: IS-301

10 11

STATUS



Band Edge - High Channel(2480 MHz) - Vertical - X-Axis - Worst Case - Model: IS-301



Band Edge - High Channel(2480 MHz) - Horizontal - Z-Axis - Worst Case - Model: IS-301

EMISSIONS IN NON-RESRTICTED BANDS DATA SHEETS



Report Number: **B60216D3 FCC Part 15 Subpart B** and **FCC Section 15.247** Test Report Single InteliSocket

gle InteliSocket

Model: IS-301

FCC 15.247 - Emissions in Non-Restricted Bands

IBIS Networks Single InteliSocket Model: IS-301

Configuration: Continuously

Transmitting

Date: 03/16/2016

Lab: D

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin	Peak / QP / Avg	Comments
2306.5	-50.26	-21.83	-28.43	Peak	High Channel (2480 MHz)
6046.0	-50.48	-21.83	-28.65	Peak	High Channel (2480 MHz)
24145.0	-39.161	-21.83	-17.33	Peak	High Channel (2480 MHz)





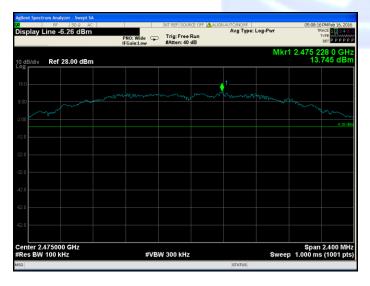
REFERENCE LEVEL MEASUREMENTS





Reference Level – Low Channel (2405 MHz)

Reference Level – Middle Channel (2440 MHz)





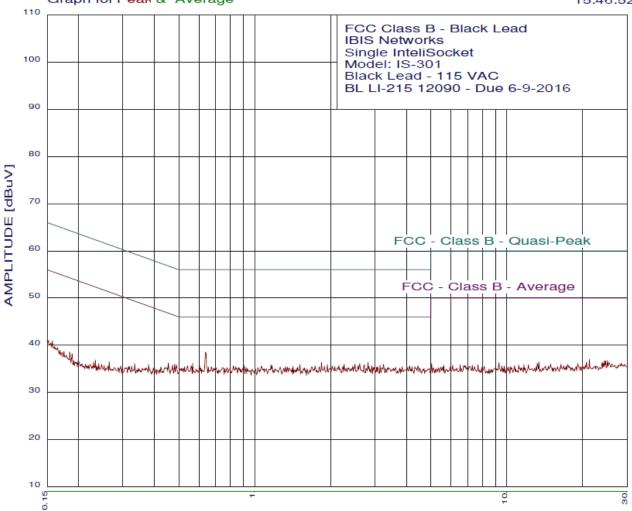
Reference Level – High Channel (2475 MHz)

Reference Level – High Channel (2480 MHz)

CONDUCTED EMISSIONS DATA SHEETS



02/04/16 15:46:52



FREQUENCY [MHz]



02/04/16 15:48:51

Model: IS-301

FCC Class B - Black Lead IBIS Networks

Single InteliSocket Model: IS-301

Black Lead - 115 VAC BL LI-215 12090 - Due 6-9-2016 Test Engineer: Kyle Fujimoto

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak cri	iteria: 0.01 dB, C	urve : Peak	- Class B - Av	erage iii iii ii
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	38.51	46.00	-7.49
ż	2.818	36.44	46.00	-9.56
3	1.855	36.32	46.00	-9.68
4	0.571	36.14	46.00	-9.86
5	2.612	36.12	46.00	-9.88
5	2.505	36.04	46.00	-9.96
7	3.243	35.94	46.00	-10.06
8	2.262	35.94	46.00	-10.06
9	1.939	35.93	46.00	-10.07
10	1.512	35.89	46.00	-10.11
11	1.160	35.86	46.00	-10.14
12	3.141	35.84	46.00	-10.16
13	2.722	35.84	46.00	-10.16
14	2.156	35.74	46.00	-10.26
15	0.909	35.74	46.00	-10.26
16	0.481	36.04	46.32	-10.28
17	0.489	35.84	46.18	-10.28
18	1.172	35.66	46.00	-10.34
19	4.432	35.65	46.00	-10.34
20	4.114	35.65	46.00	-10.35
21	0.541	35.64	46.00	-10.36
	0.541			-10.36
22 23	0.605	35.64 35.64	46.00 46.00	-10.36
24	2.916	35.64	46.00	-10.36
25	2.568	35.64	46.00	
	2.568			-10.36
26		35.64	46.00	-10.36
27 28	0.822 1.735	35.64 35.61	46.00	-10.36
			46.00 46.00	-10.39
29	1.419	35.58 35.55		-10.42
30 31	1.066 3.075	35.55	46.00	-10.45 -10.46
32	2.238		46.00	-10.46
33	2.034	35.54 35.54	46.00 46.00	-10.46
34	1.889	35.53	46.00	-10.47
35	1.325	35.47	46.00	-10.53
36	4.316	35.45	46.00	-10.55
37	4.204	35.45	46.00	-10.55
38	3.841	35.44	46.00	-10.56
39	0.527	35.44	46.00	-10.56
40 41	2.840	35.44	46.00	-10.56
	0.672	35.44	46.00	-10.56
42	2.077	35.44	46.00	-10.56
43	0.839	35.44	46.00	-10.56
44	0.454	36.23	46.80	-10.57
45	1.800	35.42	46.00	-10.58
46	1.680	35.41	46.00	-10.59
47	1.480	35.39	46.00	-10.61
48	1.345	35.37	46.00	-10.63
49	1.262	35.37	46.00	-10.63
50	0.471	35.84	46.49	-10.65

EMISSION LEVEL [dBuV] PEAK Graph for Peak & Average

02/04/16 15:56:28





02/04/16 15:59:46

Model: IS-301

FCC Class B - White Lead

IBIS Networks Single InteliSocket Model: IS-301

White Lead - 115 VAC WL LI-215 12090 - Due 6-9-2016 Test Engineer: Kyle Fujimoto

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak cri	iteria: 0.01 dB, C	Curve : Peak	Class B - Av	erage iii iii ii iii e
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.641	37.94	46.00	-8.06
2	2.379	36.64	46.00	-9.36
3	0.573	36.51	46.00	-9.49
4	3.298	36.41	46.00	-9.59
5	1.643	36.39	46.00	-9.61
6	3.492	36.34	46.00	-9.66
7	1.830	36.22	46.00	-9.78
8	1.083	36.15	46.00	-9.85
9	3.419	36.14	46.00	-9.86
10	1.331	36.07	46.00	-9.93
11	0.995	36.04	46.00	-9.96
12	4.954	35.94	46.00	-10.06
13	4.825	35.84	46.00	-10.16
14	2.238	35.84	46.00	-10.16
15	1.488	35.79	46.00	-10.21
16	1.434	35.78	46.00	-10.22
17	0.614	35.74	46.00	-10.26
18	4.204	35.74	46.00	-10.26
19	1.472	35.69	46.00	-10.31
20	1.283	35.67	46.00	-10.33
21	1.124	35.65	46.00	-10.35
22	0.573	35.64	46.00	-10.36
23	3.841	35.64	46.00	-10.36
24	3.365	35.64	46.00	-10.36
25	2.870	35.64	46.00	-10.36
26	2.322	35.64	46.00	-10.36
27	0.867	35.64	46.00	-10.36
28	1.269	35.57	46.00	-10.43
29	3.624	35.54	46.00	-10.46
30	3.043	35.54	46.00	-10.46
31 32	2.286 0.958	35.54 35.54	46.00	-10.46
33	0.958	35.55	46.00	-10.46 -10.50
34	1.043	35.55	46.05	-10.56
35		35.44	46.00	
36	2.781 2.624	35.44	46.00 46.00	-10.56 -10.56
37	2.089	35.44	46.00	-10.56
38	2.023	35.44	46.00	-10.56
39	0.849	35.44	46.00	-10.56
40	0.788	35.44	46.00	-10.56
41	1.699	35.41	46.00	-10.59
42	1.504	35.39	46.00	-10.61
43	0.651	35.34	46.00	-10.66
44	2.751	35.34	46.00	-10.66
45	2.501	35.34	46.00	-10.66
46	2.346	35.34	46.00	-10.66
47	2.002	35.34	46.00	-10.66
48	0.747	35.34	46.00	-10.66
49	1.939	35.33	46.00	-10.67
50	1.552	35.29	46.00	-10.71