



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

On

**Blink Sync Module
FCC ID: 2AF77-H1621502**

Customer Name: Immedia Semiconductor

Customer P.O.: 1001

Date of Report: January 5, 2017

Test Report No.: R-6151N-3

Test Start Date: November 15, 2016

Test Finish Date: December 19, 2016

Test Technician: M. Seamans

Revision Approved By: S. Wentworth

Report Revision Prepared By: J. Ramsey

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Technical Information

Report Number: R-6151N-3

Customer: Immedia Semiconductor

Address: 100 Burt Road, Suite 100
Andover, MA 01810

Manufacturer: Immedia Semiconductor

Manufacturer Address: 100 Burt Road, Suite 100
Andover, MA 01810

Test Sample: Blink Sync Module

Model Number: BSM00201U

Serial Numbers: IMS0606441600042, IMS0606441600030

FCC ID: 2AF77-H1621502

Type: Digital Transmission - Direct Sequence Spread Spectrum Transmitter

Power Requirements: 5VDC via 120 VAC, 60 Hz AC/DC Power Adapter

Power Supply: AC Adapter, Sunun, Model: SA68-050100U

Frequency of Operation: 2412.0 MHz to 2472.0 MHz

Equipment Class: DTS

Equipment Use: Used in a Home Monitoring System

Test Specification:

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

Test Procedure:

ANSI C63.4:2014
ANSI C63.10:2013

Test Facility:

Retlif Testing Laboratories
101 New Boston Road
Goffstown, NH 03045

FCC Registered Test Site Number: 90899



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Tests Performed

FCC Part 15, Subpart C	Test Method
15.247(a)(2)	Occupied Bandwidth (6dB Bandwidth)
15.247(b)(3)	Power Output
15.247(d)	Antenna Port, Conducted Emissions
15.247(e)	Antenna Port, Power Density
15.247(d)	Spurious Radiated Emissions, 30 MHz to 25 GHz
15.207(b)	Conducted Emissions, Power Leads, 150 kHz to 30 MHz

EUT Operation:

The Blink Sync Module operates using only 802.11n20 protocol. The EUT was evaluated in all possible data rates and the lowest data rate of 1Mbps was used for testing as this data rate resulted in the highest output power and worst case emissions.



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Certification and Signatures

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



Scott Wentworth
Branch Manager
NVLAP Approved Signatory



Todd Hannemann
EMC Test Engineer
iNARTE Certified Technician ATL-0255-T

Non-Warranty Provision

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

Non-Endorsement

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



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Revision History

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

Revision	Date	Pages Affected
-	January 5, 2017	Original Release



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Report No. R-6151N-3

Requirements and Test Results

Requirement:

FCC Section 15.247(a)(2)

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

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

- **Results:**

The minimum 6 dB bandwidth measured 16583 kHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

Requirement:

FCC Sections 15.247(b)(3)

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

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

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

- **Results:**

The maximum measured peak conducted output power was 202.768 mW. The maximum antenna gain of the PCB antenna is 1.5 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.247(d):

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

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

- **Results:**

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



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.247(e):

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

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

- **Results:**

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

Requirement:

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

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

Table 1 - Radiated Emission Limits

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

- **Results:**

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



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.207(a) - Conducted Limits

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

Table 2 - Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

*Decreases due to logarithm of the frequency

- **Results:**

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



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Requirements and Test Results (con't)

Field Strength Calculation/Conversion:

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

$$C_R = M_R + C_F$$

Where:

C_R = Corrected Reading in dB μ V/m

M_R = Uncorrected Meter Reading in dB μ V

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

Example:

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

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

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

dB μ V/M is converted to μ V/M for comparison to the specified limit using the formula:

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

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

RF Power Conversion:

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

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

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



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Requirements and Test Results (con't)

FCC Section 15.247 (i)

RF Exposure Limits

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

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

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 2400 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 202.768 mW

Gain = Max Power Gain of Antenna = 1.5 dBi = 1.41 numeric

$$1.0 \text{ mW/cmsq} = \frac{202.768 \times 1.41}{4 \times (3.14) \times D^2} = \frac{285.90}{12.56 \times D^2}$$

$$D^2 = \frac{285.90}{12.56 \times 1.0}$$

$$D = \sqrt{22.76} = 4.7 \text{ cm}$$

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



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Equipment List

FCC Section 15.247(a)(2) Occupied Bandwidth (6 dB Bandwidth)

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017

FCC Section 15.247(b)(3) Power Output

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
R477	AGILENT / HP	ANALYZER, PEAK POWER	50 MHz - 40 GHz	8990B	11/15/2016	11/30/2017
R477A	AGILENT / HP	SENSOR, WIDEBAND PEAK POWER	50 MHz - 18 GHz	N1923A	11/9/2016	11/30/2017

FCC Section 15.247(d) Antenna Port, Conducted Emissions

EN	Manufacturer	Description	Range	Model No.	Cal Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015
R474	AGILENT / HP	ANALYZER, SIGNAL	10 Hz - 8.5 GHz	N9020B	10/10/2016

Due Date

FCC Section 15.247(e) Antenna Port, Power Density

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5039	FLUKE	ATTENUATOR, COAXIAL	20 dB, DC - 12.4 GHz	Y9305	12/2/2015	12/31/2016
R474	AGILENT / HP	ANALYZER, SIGNAL	10 Hz - 8.5 GHz	N9020B	10/10/2016	10/10/2017



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**FCC Section 15.247(d)
Spurious Radiated Emissions, 30 MHz to 25 GHz**

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
1232	AGILENT / HP	PRE-AMPLIFIER	1 - 26.5 GHz	8449B	6/16/2016	6/30/2017
3258	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3115	10/13/2016	4/30/2018
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	2/5/2016	8/31/2017
3430	MCS	ANTENNA, HORN	18 - 26.5 GHz	K-5039	No Calibration Required	
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	4/13/2016	4/30/2018
443	ELECTRO-METRICS	ANTENNA, LOG PERIODIC	200 MHz - 1000 MHz	LPA-25	10/6/2016	4/30/2018
4984G	MICROLAB / FXR	ANTENNA, HIGH GAIN HORN	12.4 - 18 GHz	Y638A	No Calibration Required	
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017
5070E	MICRO-COAX	CABLE, COAXIAL	10 KHz - 18 GHz	UFB311A2-1800-50U50U	5/27/2016	5/31/2017
5179B	MICRO-COAX	CABLE, COAXIAL	10 kHz - 18 GHz	UFB311A-1-036050U50U	10/7/2016	10/31/2017
R469	AGILENT / HP	ANALYZER, SPECTRUM	100 Hz - 26.5 GHz	E7405A;A	11/17/2015	11/30/2016

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

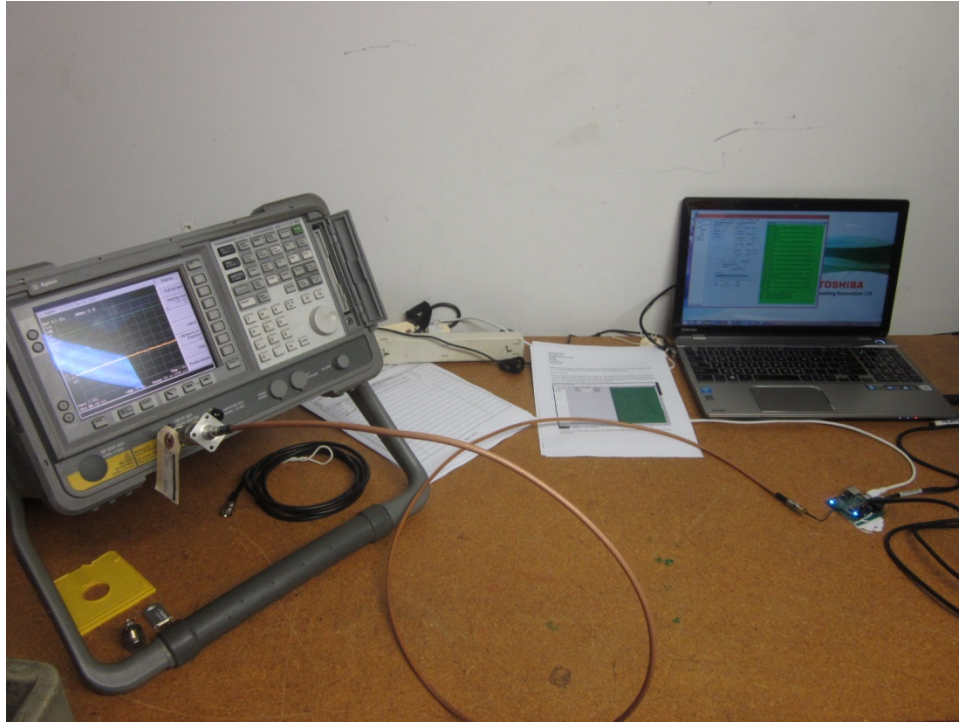
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5030B	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz	757C-10	3/16/2016	3/31/2017
5070	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	10/21/2016	10/31/2017
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	3/23/2016	3/31/2017
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30 MHz	21106-50-BP-25-BNC	3/23/2016	3/31/2017



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Test Photographs
Occupied Bandwidth (6dB Bandwidth)



Test Setup



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**FCC Part 15, Subpart C, Section 15.247(a)(2)
Occupied Bandwidth (6 dB Bandwidth)
Test Data**

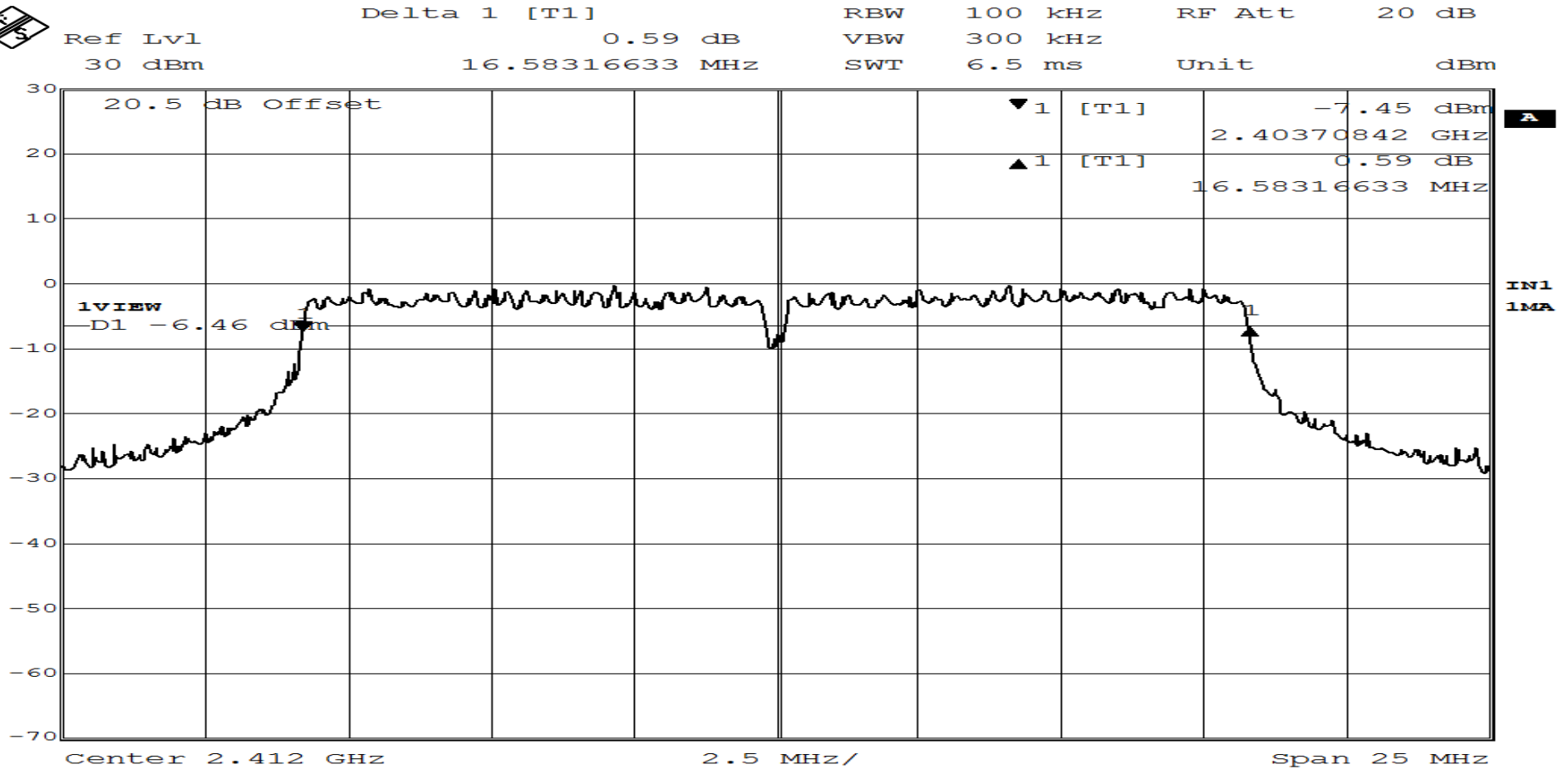


Retlif Testing Laboratories

Report No. R-6151N-3

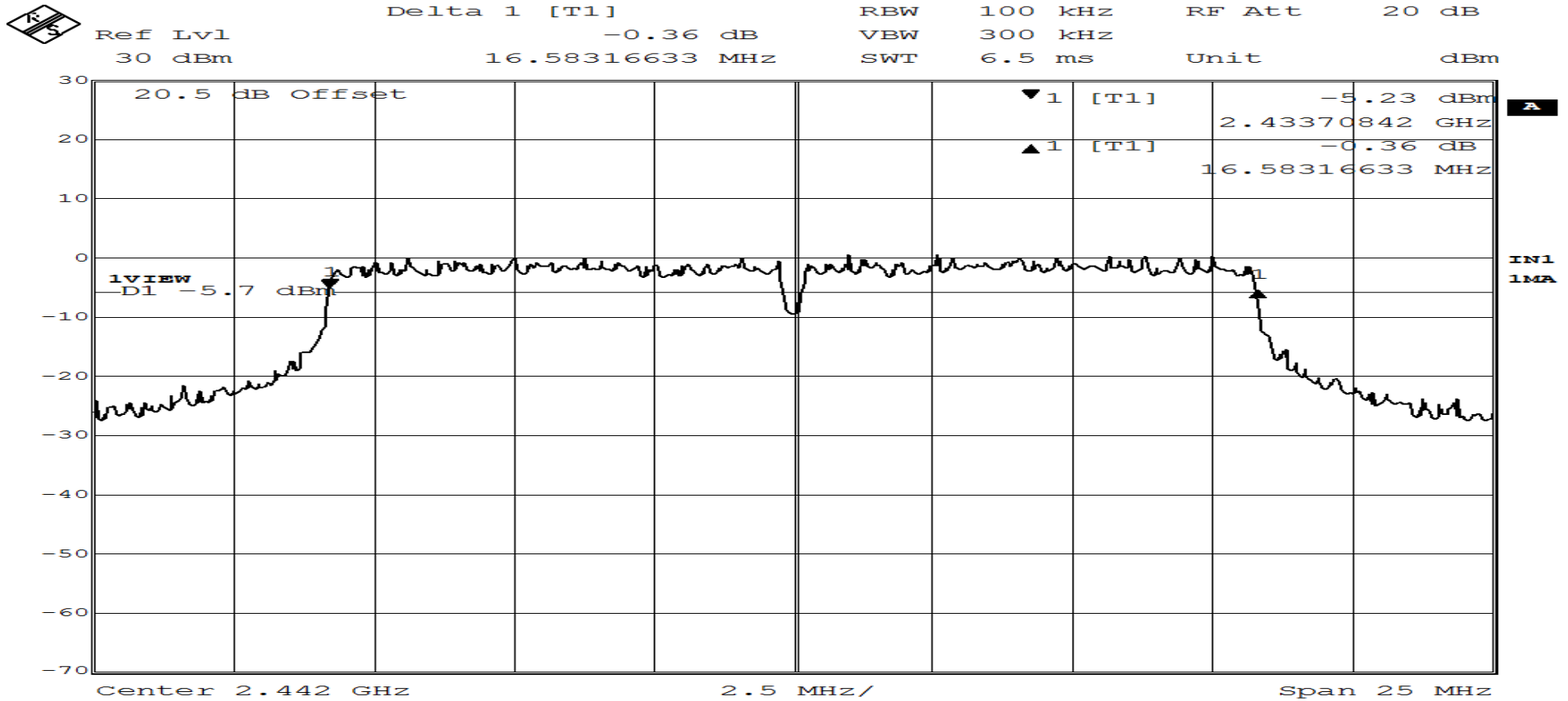
RETLIF TESTING LABORATORIES

Test Method	6dB Channel Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated Data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)		
Technician	M. Seamans	Date	November 15 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2412 MHz 6dB Bandwidth: 16.583 MHz		



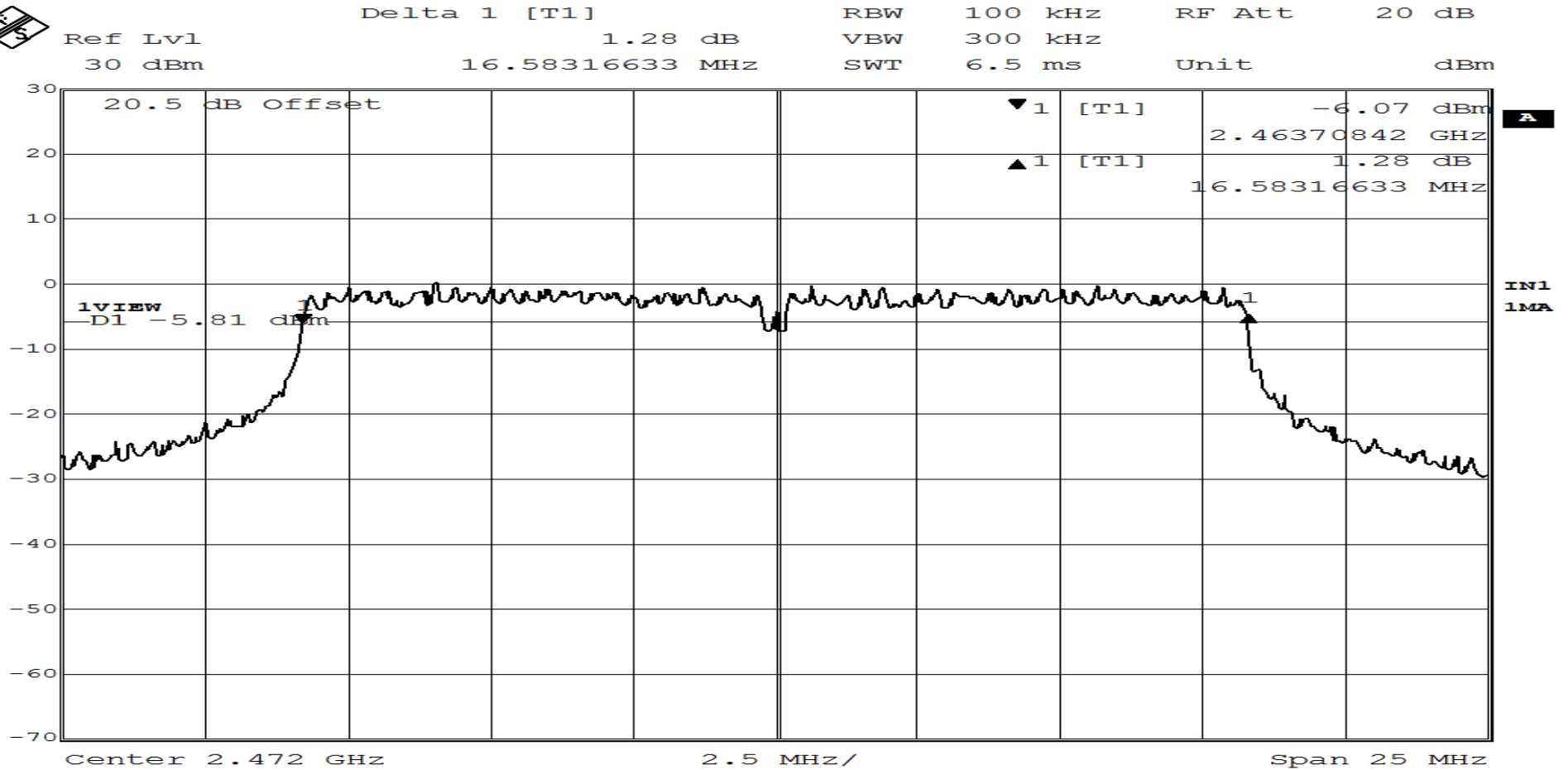
RETLIF TESTING LABORATORIES

Test Method	6dB Channel Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated Data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)		
Technician	M. Seamans	Date	November 15 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2442 MHz 6dB Bandwidth: 16.583 MHz		



RETLIF TESTING LABORATORIES

Test Method	6dB Channel Bandwidth		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated Data		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)		
Technician	M. Seamans	Date	November 15 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2472 MHz 6dB Bandwidth: 16.583 MHz		



**Test Photographs
Conducted Emissions, Power Output**



Test Setup



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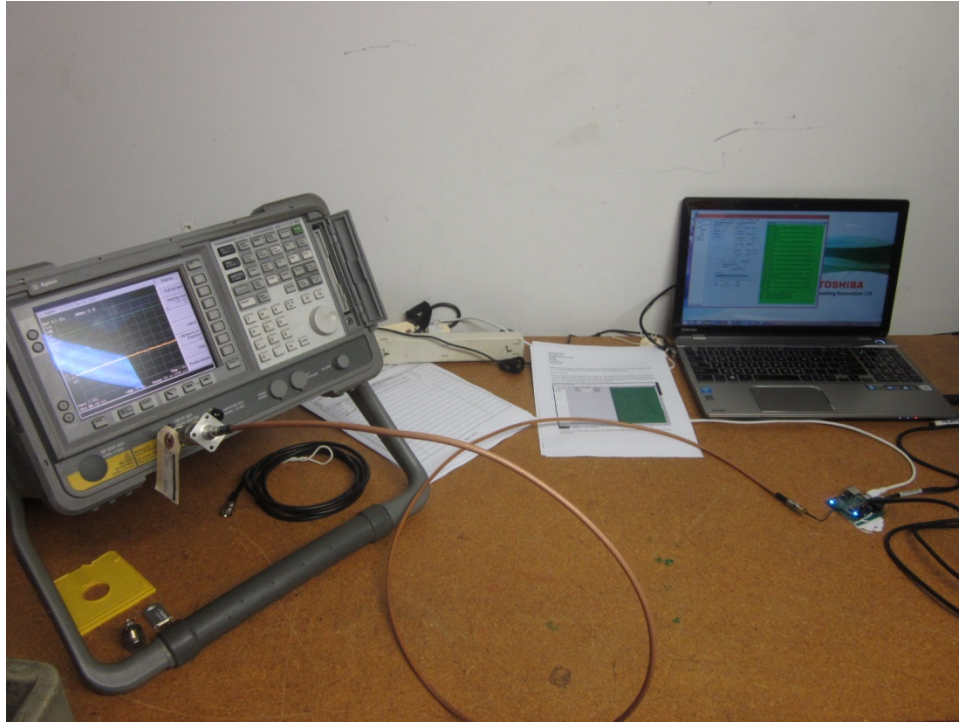
**FCC Part 15, Subpart C, Section 15.247(b)(3)
Conducted Emissions, Power Output
Test Data**



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Test Photographs
Antenna Port, Conducted Emissions



Test Setup



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Report No. R-6151N-3

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

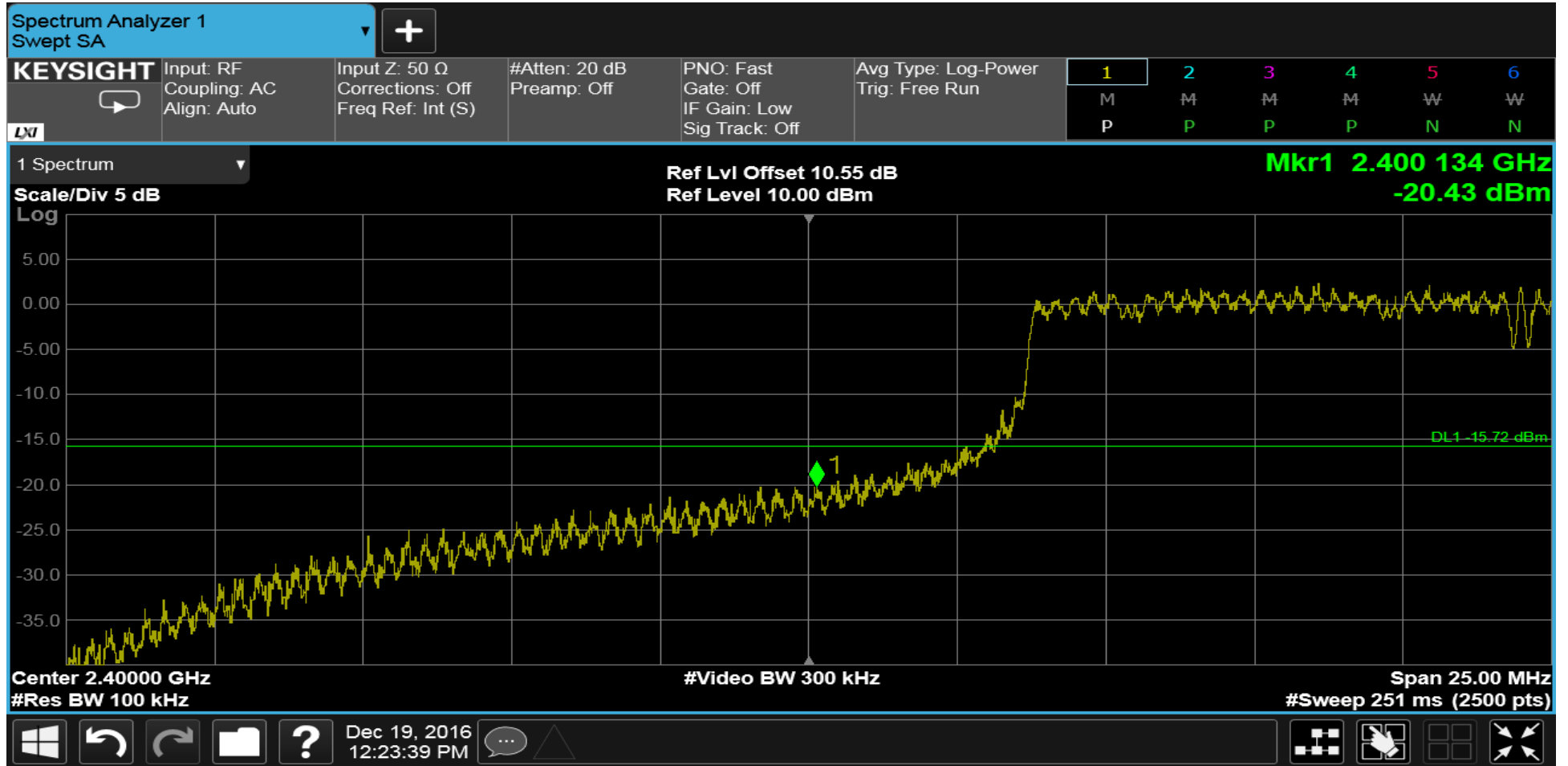


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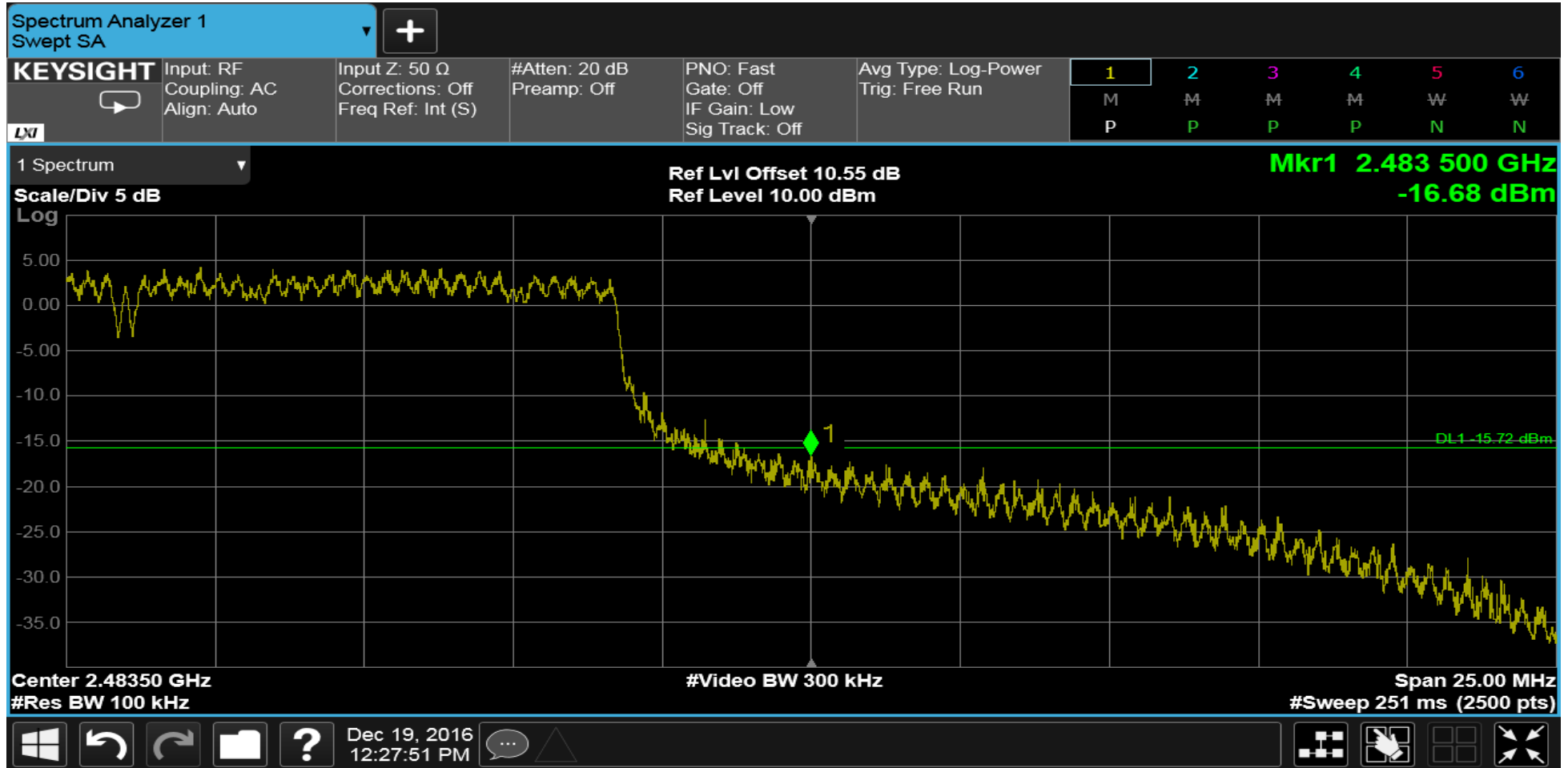
RETLIF TESTING LABORATORIES

Test Method	Band Edge Emissions Conducted				
Customer	Immedia Semiconductor	Job No.	R-6151N-3		
Test Sample	Blink Sync Module				
Model Number	BSM00201U	Serial No.	IMS0606441600042		
Operating Mode	Transmitting modulated signal				
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)				
Technician	M. Seamans	Date	December 19 th , 2016		
Climatic Conditions	Temp: 20.5 °C Relative Humidity: 23.7 %				
Notes	Transmit Frequency: 2412 MHz Limit based on 100kHz PSD Level of 4.28dBm				



RETLIF TESTING LABORATORIES

Test Method	Band Edge Emissions Conducted				
Customer	Immedia Semiconductor	Job No.	R-6151N-3		
Test Sample	Blink Sync Module				
Model Number	BSM00201U	Serial No.	IMS0606441600042		
Operating Mode	Transmitting modulated signal				
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)				
Technician	M. Seamans	Date	December 19 th , 2016		
Climatic Conditions	Temp: 20.5 °C Relative Humidity: 23.7 %				
Notes	Transmit Frequency: 2472 MHz Limit based on 100kHz PSD Level of 4.28dBm				



**Unwanted Emissions into Non-Restricted Frequency Bands
25 MHz to 25 GHz
Test Data**



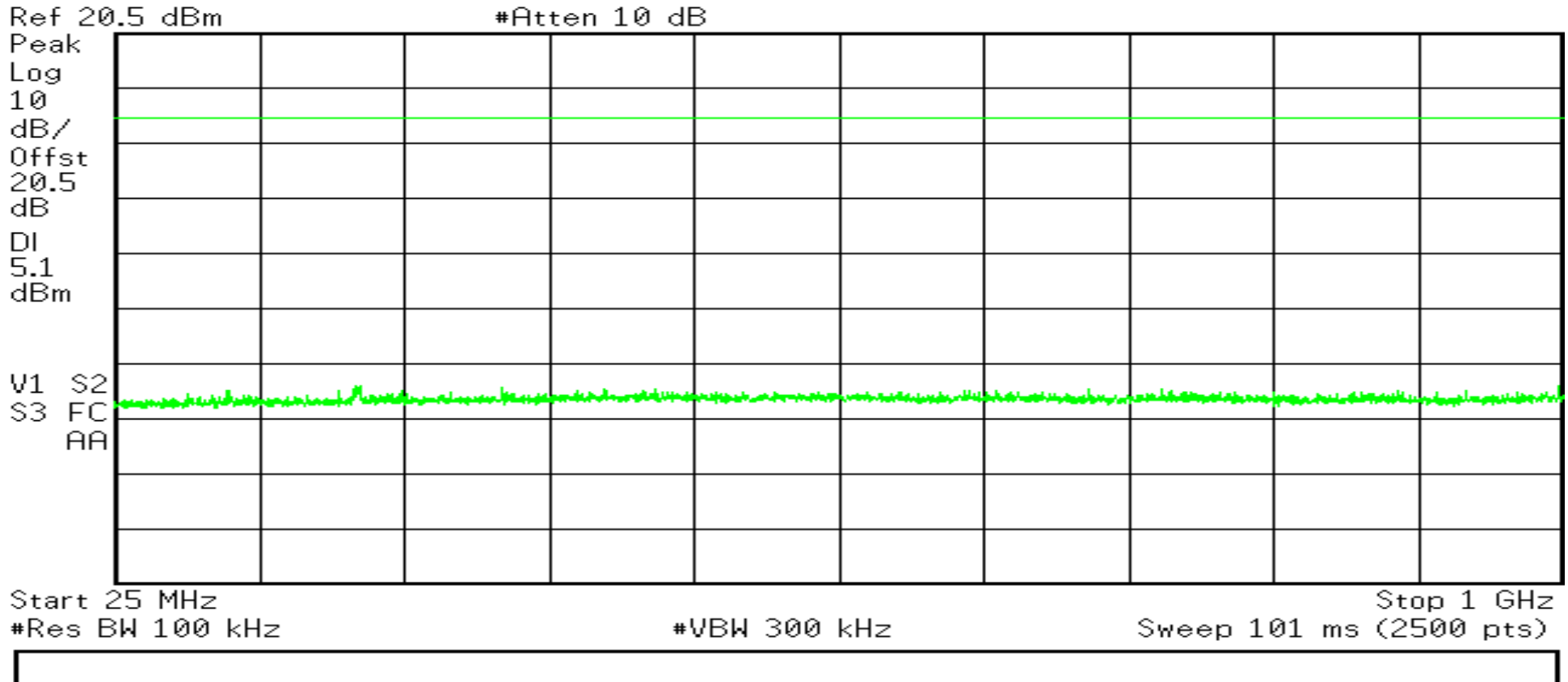
Retlif Testing Laboratories

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RETLIF TESTING LABORATORIES

Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2412 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

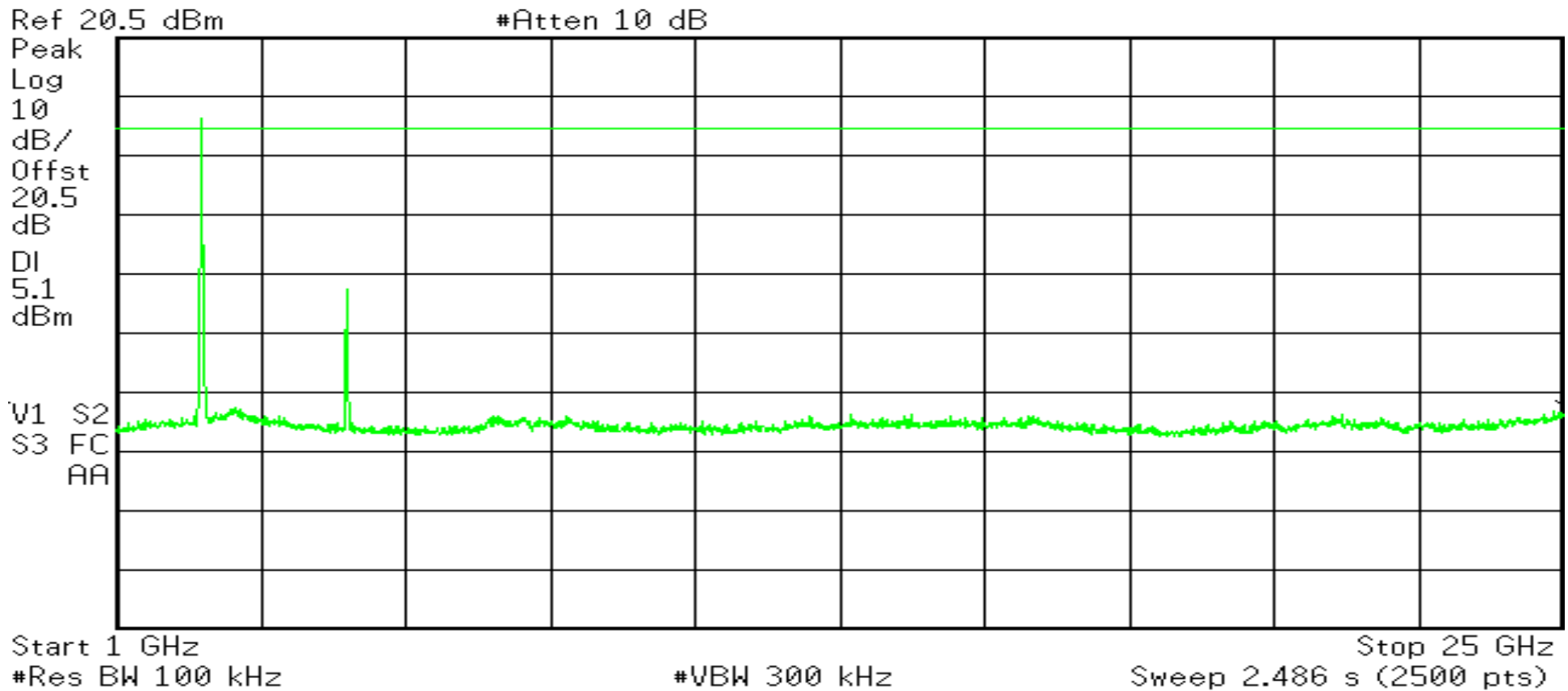
Agilent 11:16:47 Nov 18, 2016



RETLIF TESTING LABORATORIES

Test Method	Enhanced Emissions into Non-Resonant Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2412 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

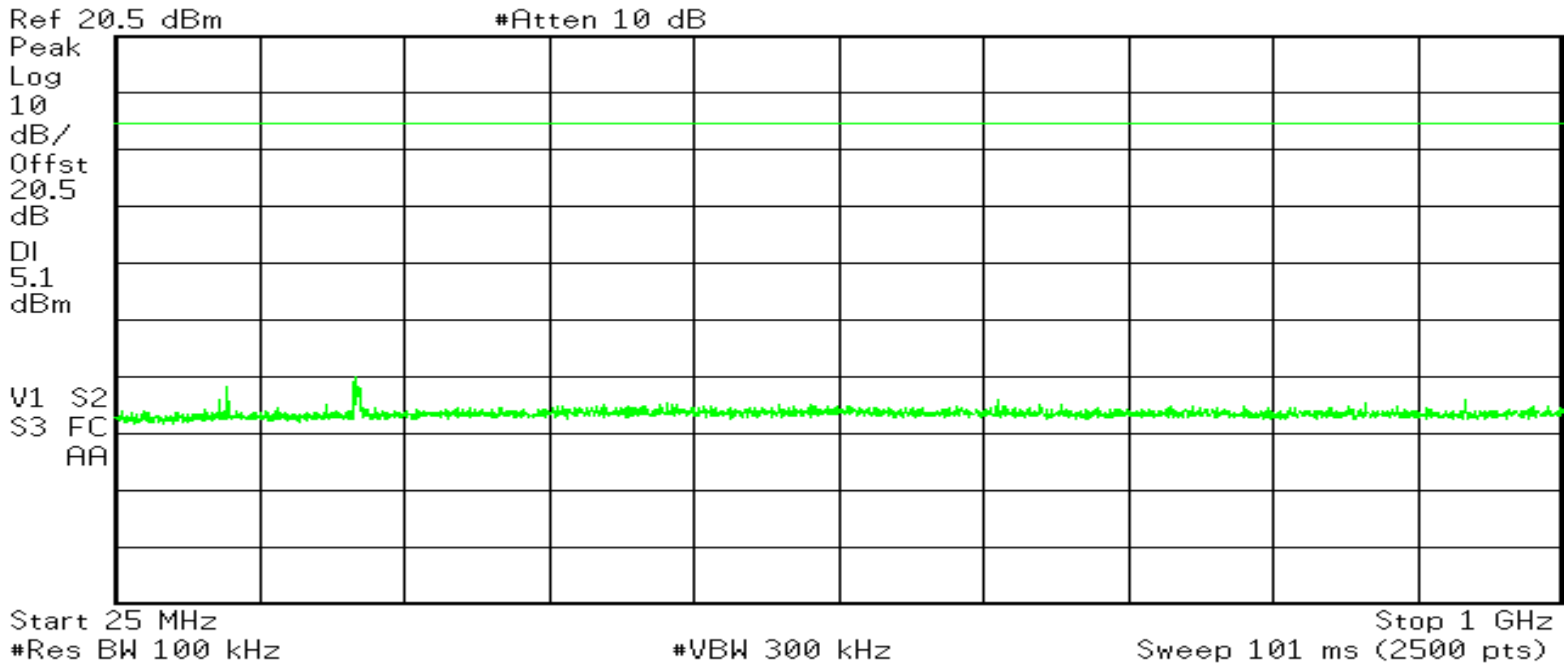
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RETLIF TESTING LABORATORIES

Test Method	Enhanced Emissions into Non-Resonated Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2442 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

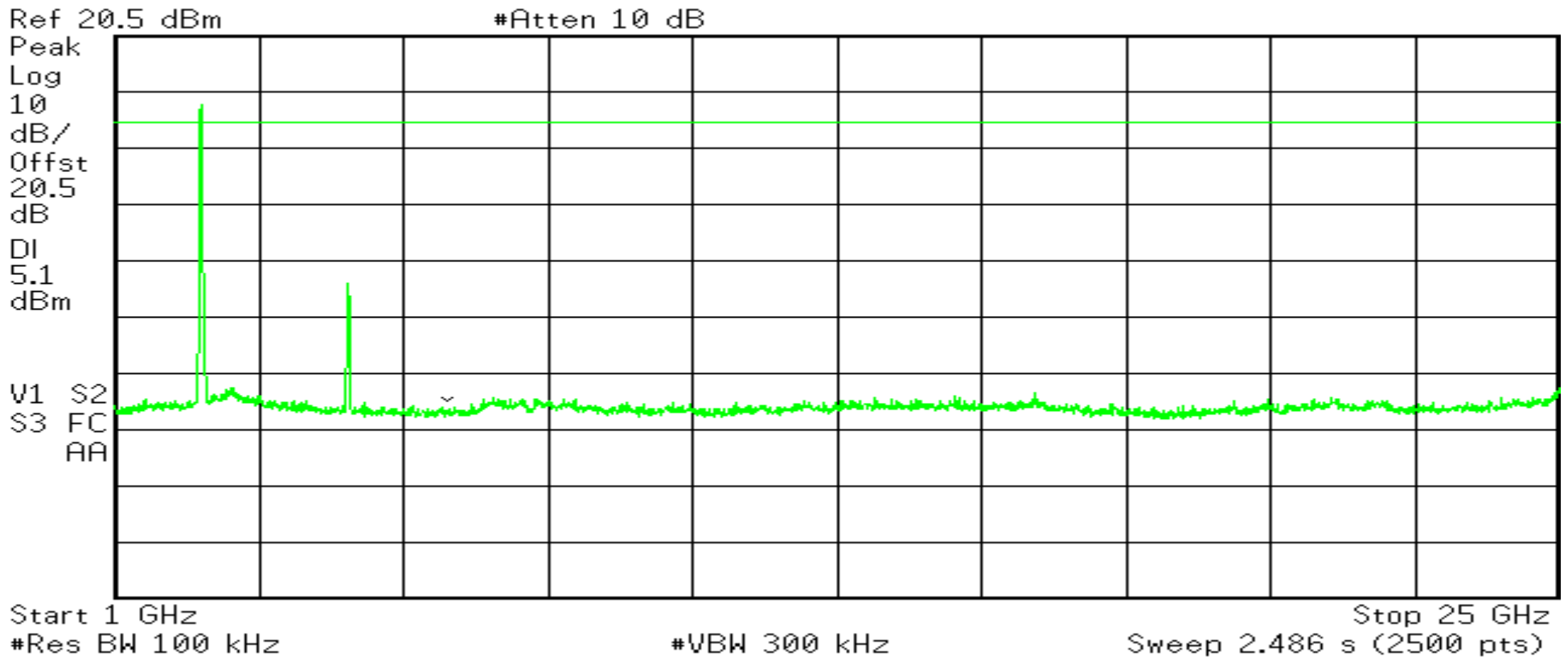
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RETLIF TESTING LABORATORIES

Test Method	Enhanced Emissions into Non-Reserved Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2442 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

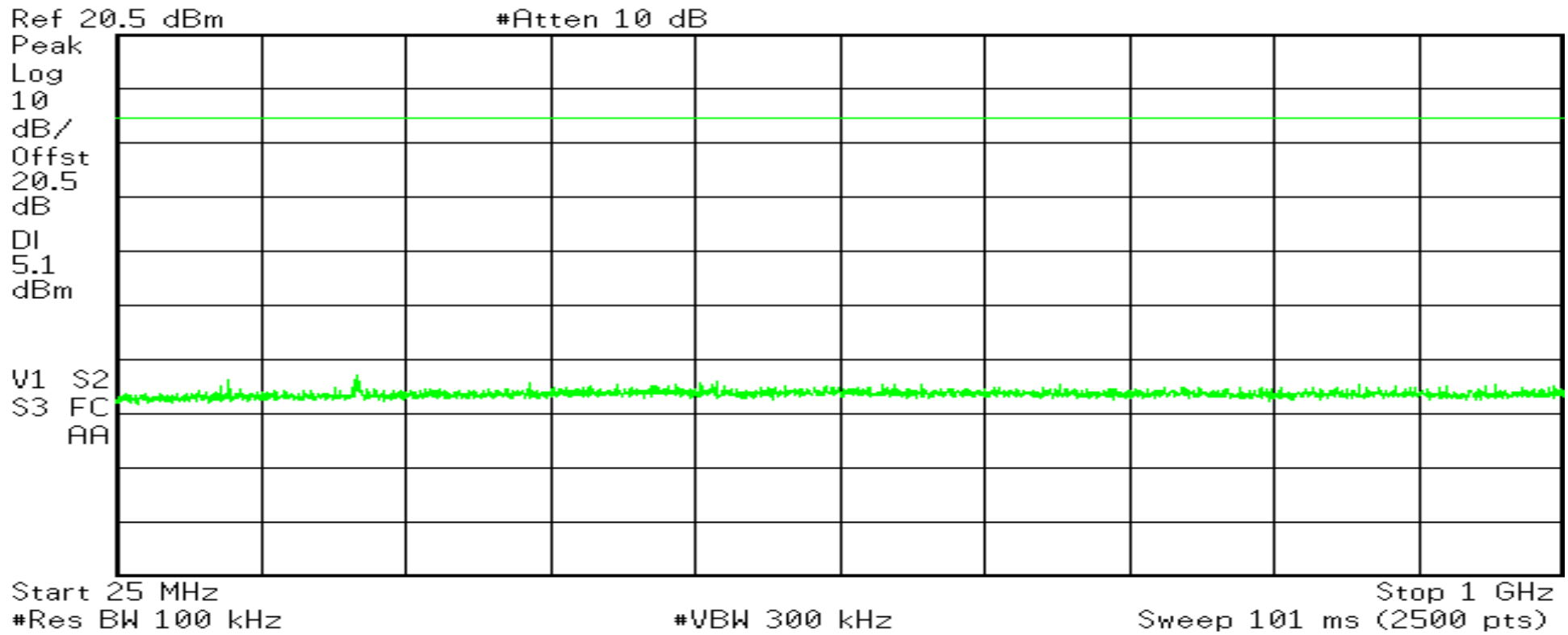
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RETLIF TESTING LABORATORIES

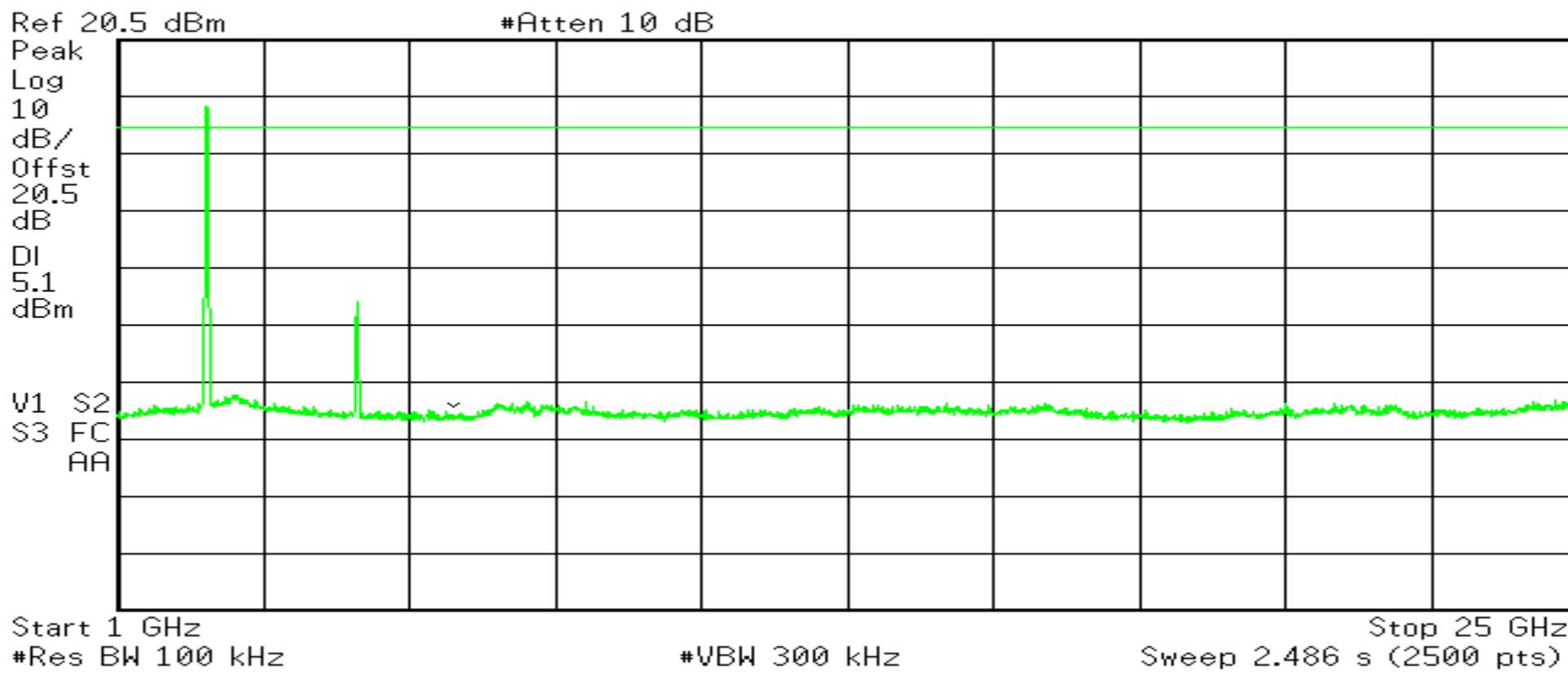
Test Method	Enhanced Emissions into Non-Reserved Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2472 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

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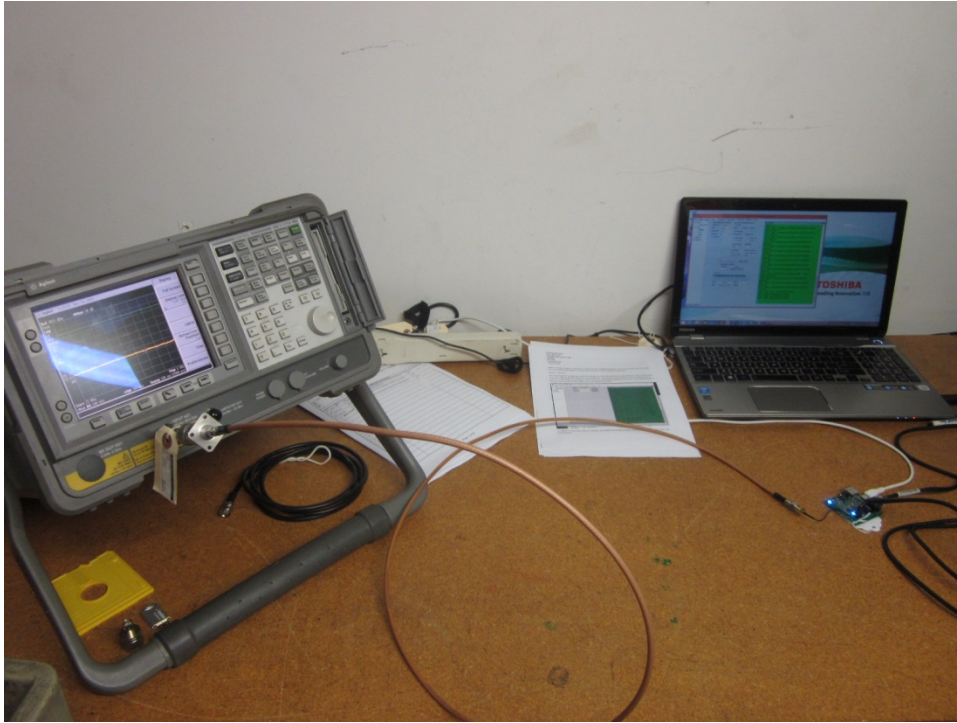


Test Method	Unwanted Emissions into Non-Restricted Frequency Bands		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model Number	BSM00201U	Serial No.	IMS0606441600042
Operating Mode	Transmitting modulated signal		
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (d)		
Technician	M. Seamans	Date	November 18 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 32.0 %		
Notes	Transmit Frequency: 2472 MHz Limit is 20dB down from the Fundamental Frequency Peak Power Output		

Agilent 11:07:04 Nov 18, 2016



Test Photographs Antenna Port, Power Density



Test Setup



Retlif Testing Laboratories

Report No. R-6151N-3

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

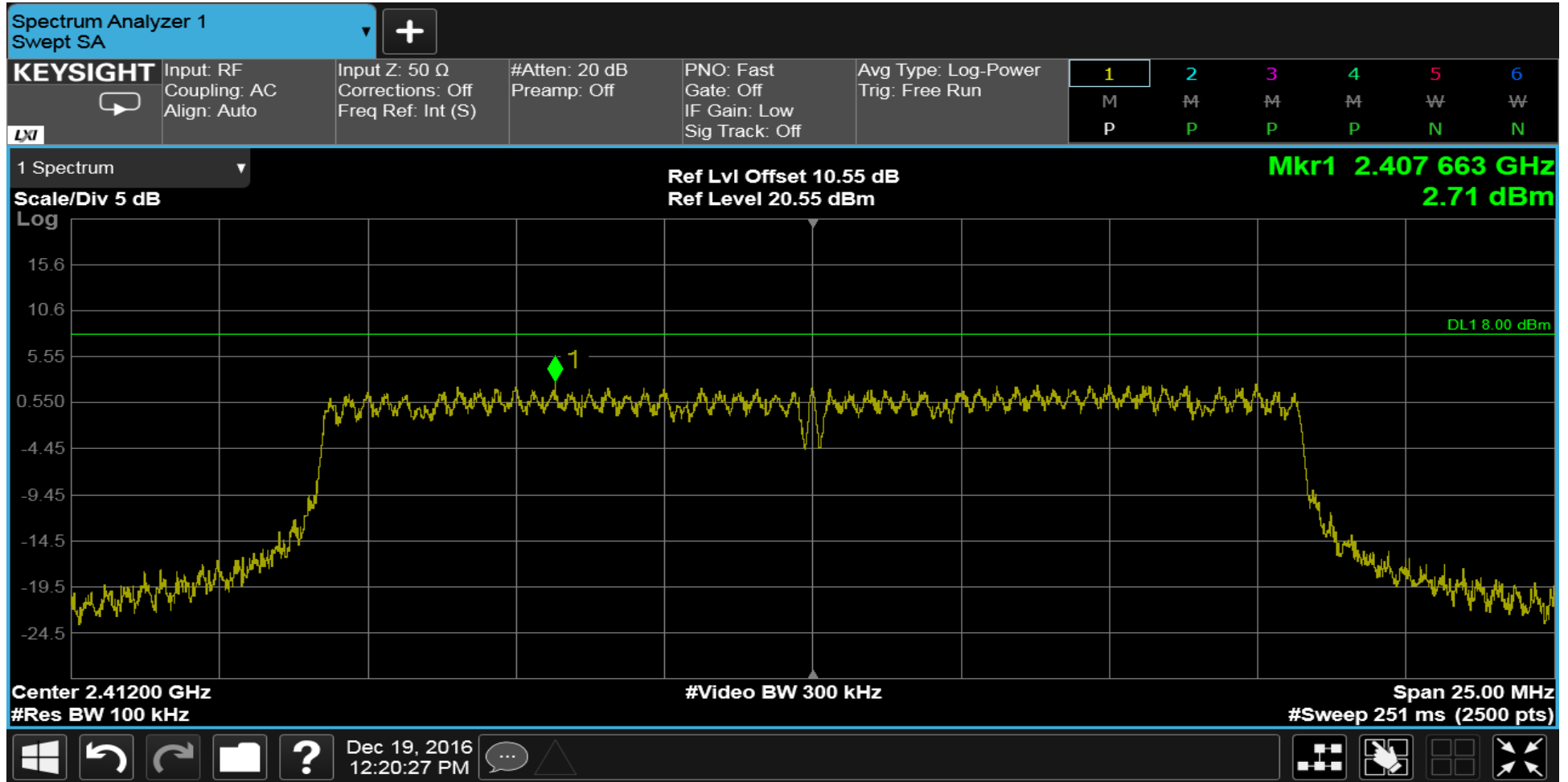


Retlif Testing Laboratories

Report No. R-6151N-3

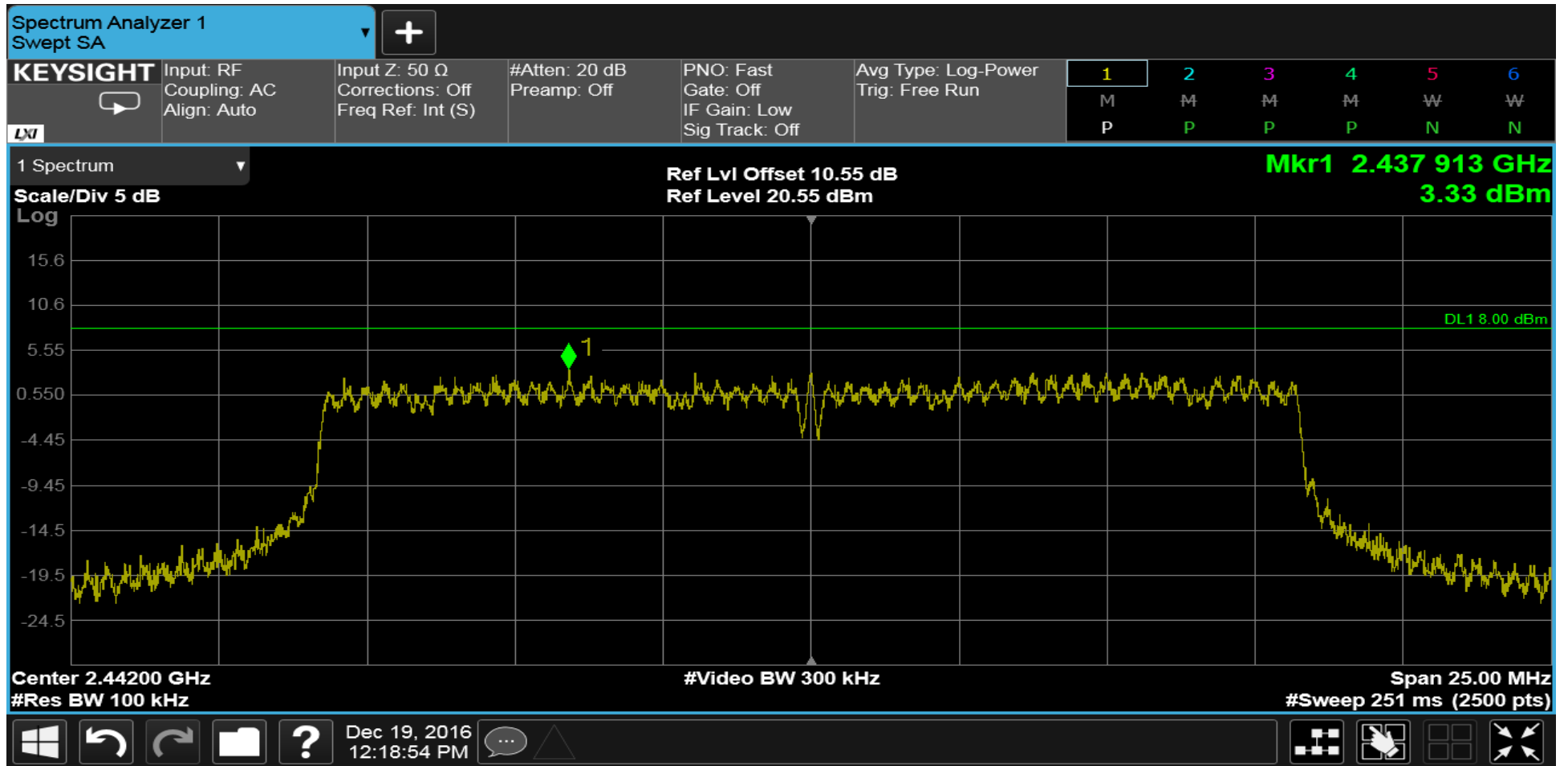
RETLIF TESTING LABORATORIES

Test Method	Power Spectral Density				
Customer	Immedia Semiconductor	Job No.	R-6151N-3		
Test Sample	Blink Sync Module				
Model Number	BSM00201U	Serial No.	IMS0606441600042		
Operating Mode	Transmitting modulated signal				
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)				
Technician	M. Seamans	Date	December 19 th , 2016		
Climatic Conditions	Temp: 20.5 °C Relative Humidity: 23.7 %				
Notes	Transmit Frequency: 2412 MHz Limit: 8dBm Power Spectral Density: 2.71 dBm				



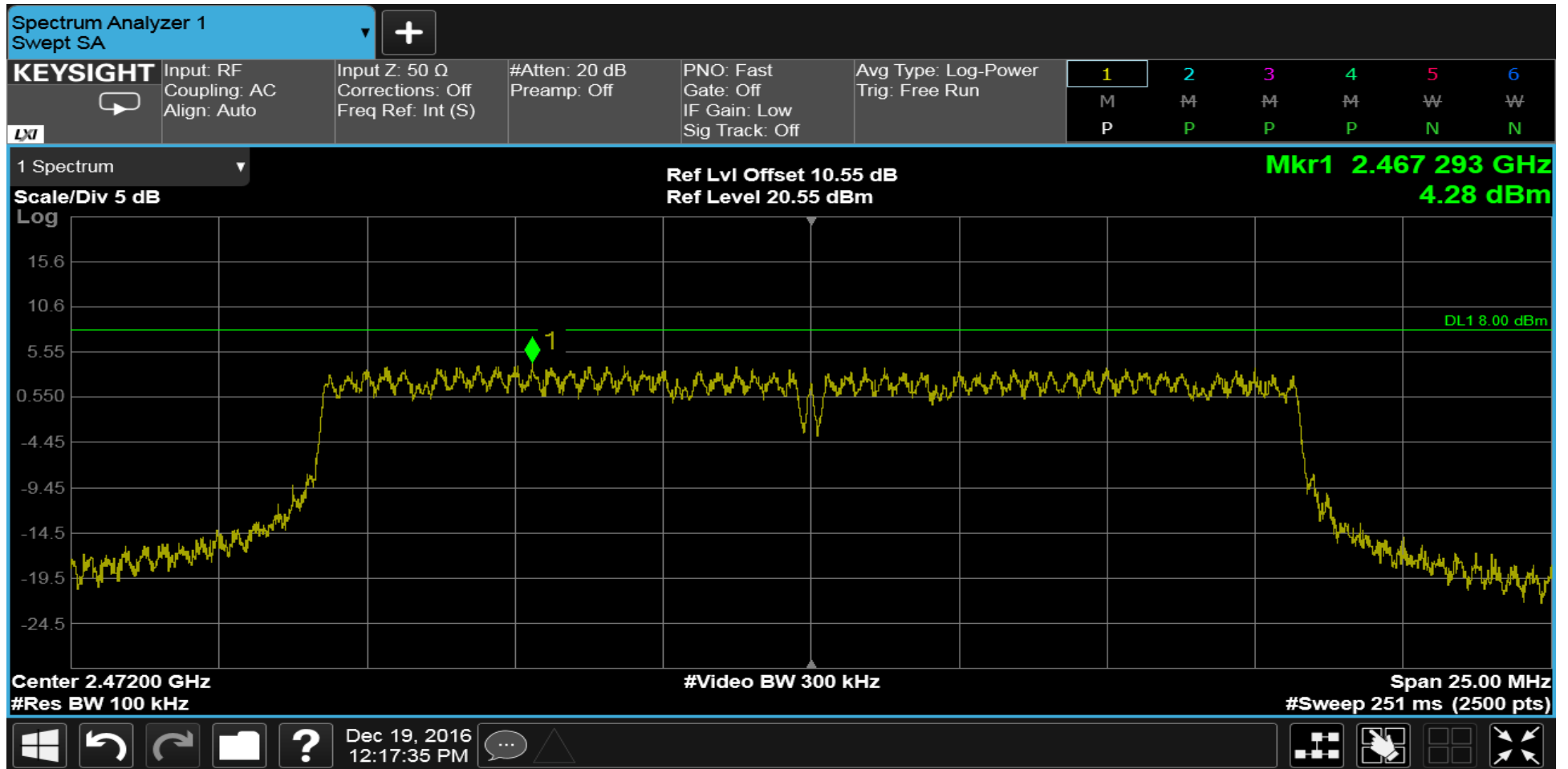
RETLIF TESTING LABORATORIES

Test Method	Power Spectral Density				
Customer	Immedia Semiconductor	Job No.	R-6151N-3		
Test Sample	Blink Sync Module				
Model Number	BSM00201U	Serial No.	IMS0606441600042		
Operating Mode	Transmitting modulated signal				
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)				
Technician	M. Seamans	Date	December 19 th , 2016		
Climatic Conditions	Temp: 20.5 °C Relative Humidity: 23.7 %				
Notes	Transmit Frequency: 2442 MHz Limit: 8dBm Power Spectral Density: 3.33 dBm				

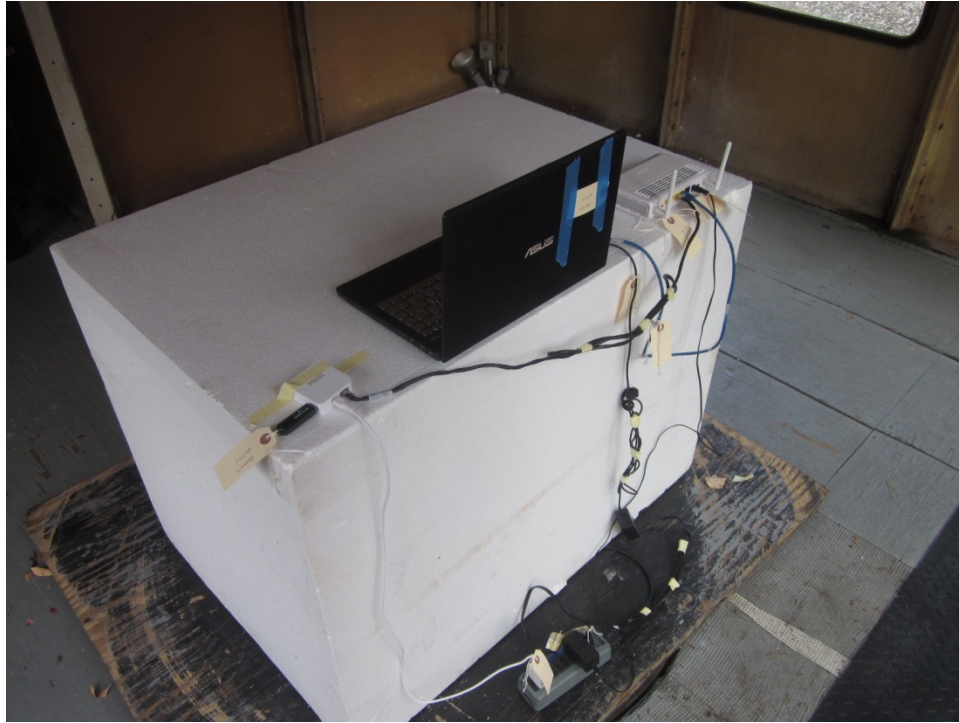


RETLIF TESTING LABORATORIES

Test Method	Power Spectral Density				
Customer	Immedia Semiconductor	Job No.	R-6151N-3		
Test Sample	Blink Sync Module				
Model Number	BSM00201U	Serial No.	IMS0606441600042		
Operating Mode	Transmitting modulated signal				
Test Specification	FCC Part 15, Subpart C Paragraph: 15.247 (b)(3)				
Technician	M. Seamans	Date	December 19 th , 2016		
Climatic Conditions	Temp: 20.5 °C Relative Humidity: 23.7 %				
Notes	Transmit Frequency: 2472 MHz Limit: 8dBm Power Spectral Density: 4.28 dBm				



Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



EUT Configuration, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 30 MHz – 200 MHz, Biconical Antenna, 80 cm



Vertical Polarization, 30 MHz – 200 MHz, Biconical Antenna, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 200 MHz - 1 GHz, Log Periodic, 80 cm



Vertical Polarization, 200 MHz - 1 GHz, Log Periodic, 80 cm



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 1- 12 GHz, Double Ridge Guide, 150 cm



Vertical Polarization, 1- 12 GHz, Double Ridge Guide, 150 cm



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 12- 18 GHz, High Gain Horn, 150 cm



Vertical Polarization, 12- 18 GHz, High Gain Horn, 150 cm



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 18 - 25 GHz, Standard Gain Horn, 150 cm



Vertical Polarization, 18 - 25 GHz, Standard Gain Horn, 150 cm



Retlif Testing Laboratories

Report No. R-6151N-3

**FCC Part 15, Subpart B, Section 15.209(a)
Spurious Radiated Emissions, 30 MHz to 25 GHz
Test Data**



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m		uV/m	uV/m
37.50	-	-	-	-		-	100.00
	38.00	22.10	14.20	36.30	*	65.31	
38.25	-	-	-	-		-	100.00
73.00	-	-	-	-		-	100.00
	74.00	22.84	8.36	31.20	*	36.31	
74.60	-	-	-	-		-	100.00
74.80	-	-	-	-		-	100.00
	75.00	19.54	8.36	27.90	*	24.83	
75.20	-	-	-	-		-	100.00
108.00	-	-	-	-		-	150.00
	115.00	12.78	10.02	22.80	*	13.80	
	-	-	-	-		-	
121.94	-	-	-	-		-	150.00
123.00	-	-	-	-		-	150.00
	130.00	7.74	15.96	23.70	*	15.31	
	-	-	-	-		-	
138.00	-	-	-	-		-	150.00

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

Data Sheet 1 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
149.90	-	-	-	-			-	150.00
	150.00	15.43	11.17	26.60	*		22.13	
150.05	-	-	-	-			-	150.00
156.52	-	-	-	-			-	150.00
	156.52	13.82	12.08	25.90	*		19.72	
156.52	-	-	-	-			-	150.00
156.70	-	-	-	-			-	150.00
	156.80	12.08	12.12	24.20	*		16.22	
156.90	-	-	-	-			-	150.00
162.01	-	-	-	-			-	150.00
	165.00	9.92	12.68	22.60	*		13.49	
167.17	-	-	-	-			-	150.00
167.72	-	-	-	-			-	150.00
	170.00	9.60	12.80	22.40	*		13.18	
173.20	-	-	-	-			-	150.00

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

Data Sheet 2 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m		uV/m	uV/m
240.00	-	-	-	-		-	200.00
	266.46	12.85	16.85	29.70		30.55	
285.00	-	-	-	-		-	200.00
322.80	-	-	-	-		-	200.00
	330.00	7.89	18.91	26.80	*	21.88	
335.40	-	-	-	-		-	200.00
399.90	-	-	-	-		-	200.00
	405.00	2.11	21.49	23.60	*	15.14	
410.00	-	-	-	-		-	200.00
608.00	-	-	-	-		-	200.00
	611.00	-1.84	27.34	25.50	*	18.84	
614.00	-	-	-	-		-	200.00
960.00	-	-	-	-		-	500.00
	975.00	0.80	32.10	32.90	*	44.16	
1240.00	-	-	-	-		-	500.00
1300.00	-	-	-	-		-	500.00
	1350.00	33.67	-5.55	28.12	*	25.47	
1427.00	-	-	-	-		-	500.00

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

Data Sheet 3 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	
Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz		

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m		uV/m	uV/m
1435.00	-	-	-	-		-	500.00
	1500.00	32.21	-4.81	27.40	*	23.44	
1646.50	-	-	-	-		-	500.00
1660.00	-	-	-	-		-	500.00
	1680.00	31.41	-4.01	27.40	*	23.44	
1710.00	-	-	-	-		-	500.00
1718.80	-	-	-	-		-	500.00
	1720.00	32.08	-3.84	28.24	*	25.82	
1722.20	-	-	-	-		-	500.00
2200.00	-	-	-	-		-	500.00
	2250.00	32.14	-2.07	30.07	*	31.88	
2300.00	-	-	-	-		-	500.00
2310.00	-	-	-	-		-	500.00
	2360.00	31.69	-1.79	29.90	*	31.26	
2390.00	-	-	-	-		-	500.00
2483.50	-	-	-	-		-	500.00
	2490.00	31.91	-1.47	30.44	*	33.27	
2500.00	-	-	-	-		-	500.00

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

Data Sheet 4 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading		Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m		uV/m	uV/m
2690.00	-	-	-	-		-	500.00
	2706.00	37.91	-0.97	36.94	*	70.31	
	2745.00	38.09	-0.89	37.20	*	72.44	
	2781.00	38.19	-0.81	37.38	*	73.96	
2900.00	-	-	-	-		-	500.00
3260.00	-	-	-	-		-	500.00
	3263.00	30.75	0.11	30.86	*	34.91	
3267.00	-	-	-	-		-	500.00
3332.00	-	-	-	-		-	500.00
	3336.00	30.80	0.23	31.03	*	35.60	
3339.00	-	-	-	-		-	500.00
3345.00	-	-	-	-		-	500.00
	3350.00	31.45	0.26	31.71	*	38.50	
3358.00	-	-	-	-		-	500.00
3600.00	-	-	-	-		-	500.00
	3608.00	38.15	0.67	38.82	*	87.30	
	3660.00	38.45	0.75	39.20	*	91.20	
	3708.00	38.32	0.83	39.15	*	90.68	

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

Data Sheet 5 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band MHz	Measured Frequency MHz	Meter Reading dBuV	Correction Factor dB	Corrected Reading dBuV/m			Converted Reading uV/m	Limit at 3M uV/m
	-	-	-	-			-	
4400.00	-	-	-	-			-	500.00
4500.00	-	-	-	-			-	500.00
	4824.00	49.20	1.71	50.91			351.16	
	4884.00	49.01	1.76	50.77			345.54	
	4944.00	48.98	1.81	50.79			346.34	
	-	-	-	-			-	
5150.00	-	-	-	-			-	500.00
5350.00	-	-	-	-			-	500.00
	5400.00	29.72	2.43	32.15	*		40.50	
5460.00	-	-	-	-			-	500.00
7250.00	-	-	-	-			-	500.00
	7326.00	39.71	3.85	43.56			150.66	
7750.00	-	-	-	-			-	500.00
8025.00	-	-	-	-			-	500.00
	8118.00	34.08	4.19	38.27	*		81.94	
	8235.00	34.50	4.25	38.75	*		86.60	
	8343.00	34.79	4.26	39.05	*		89.64	
	-	-	-	-			-	
8500.00	-	-	-	-			-	500.00

EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 6 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
9000.00	-	-	-	-			-	500.00
	9100.00	31.99	4.68	36.67	*		68.16	
9200.00	-	-	-	-			-	500.00
9300.00	-	-	-	-			-	500.00
	9400.00	31.72	4.82	36.54	*		67.14	
9500.00	-	-	-	-			-	500.00
10600.00	-	-	-	-			-	500.00
	12000.00	30.87	6.91	37.78	*		77.50	
12700.00	-	-	-	-			-	500.00
13250.00	-	-	-	-			-	500.00
	13300.00	30.04	9.86	39.90	*		98.87	
13400.00	-	-	-	-			-	500.00
14470.00	-	-	-	-			-	500.00
	14490.00	30.41	11.2	41.61	*		120.36	
14500.00	-	-	-	-			-	500.00
15350.00	-	-	-	-			-	500.00

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

Data Sheet 7 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	Unwanted Emissions into Restricted Frequency Bands	
Customer	Immedia Semiconductor	
Job Number	R-6151N-3	
Test Sample	Blink Sync Module	
Model Number	BSM00201U	
Serial Number	IMS0606441600030	
Test Specification	FCC Part 15 Subpart C	Paragraph: 15.247(d)
Operating Mode	Transmitting Modulated Data at 2412 MHz, 2442 MHz and 2472 MHz consecutively.	
Technician	M. Seamans	
Date	November 17 th , 2016	

Notes: Antenna Test Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz

TEST PARAMETERS

Restricted Band	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
	15800.00	31.91	5.79	37.70	*		76.73	
16200.00	-	-	-	-			-	500.00
17700.00	-	-	-	-			-	500.00
	19000.00	31.41	-5.57	25.84	*		19.58	
	19296.00	31.19	-5.37	25.82	*		19.54	
	19536.00	32.05	-5.37	26.68	*		21.57	
	19776.00	32.45	-5.37	27.08	*		22.59	
21400.00	-	-	-	-			-	500.00
22010.00	-	-	-	-			-	500.00
	22500.00	32.60	-6.61	25.99	*		19.92	
23120.00	-	-	-	-			-	500.00
23600.00	-	-	-	-			-	500.00
	23800.00	35.03	-6.08	28.95	*		28.02	
24000.00	-	-	-	-			-	500.00

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

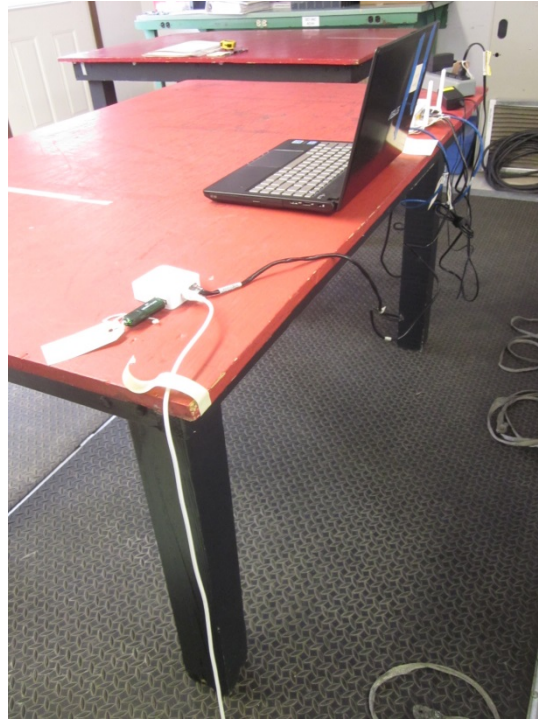
Data Sheet 8 of 8



Retlif Testing Laboratories

Report No. R-6151N-3

Test Photographs
Conducted Emissions, Power Leads, 150 kHz to 30 MHz



EUT Configuration



Test Setup



Retlif Testing Laboratories

Report No. R-6151N-3

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

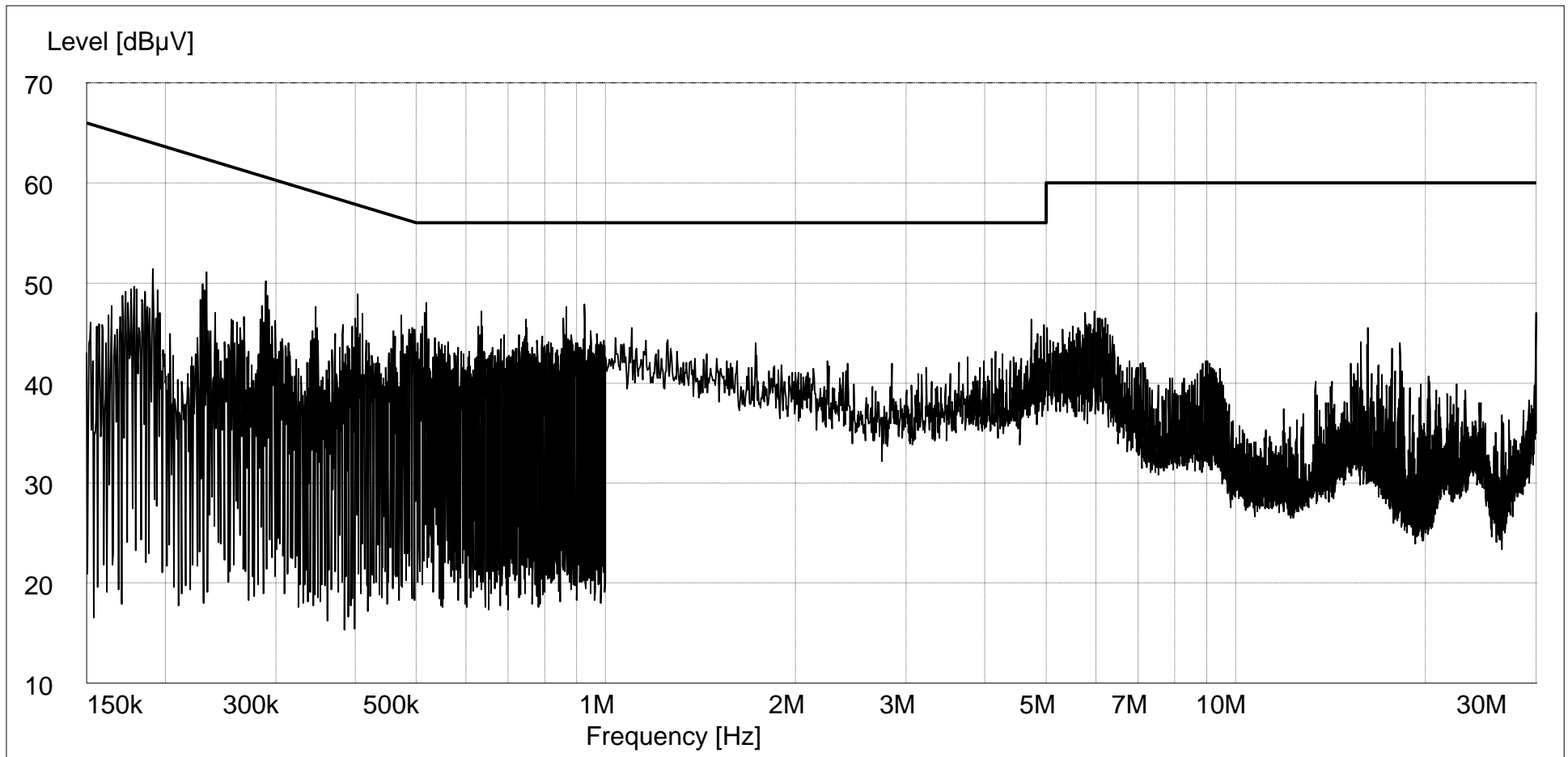


Retlif Testing Laboratories

Report No. R-6151N-3

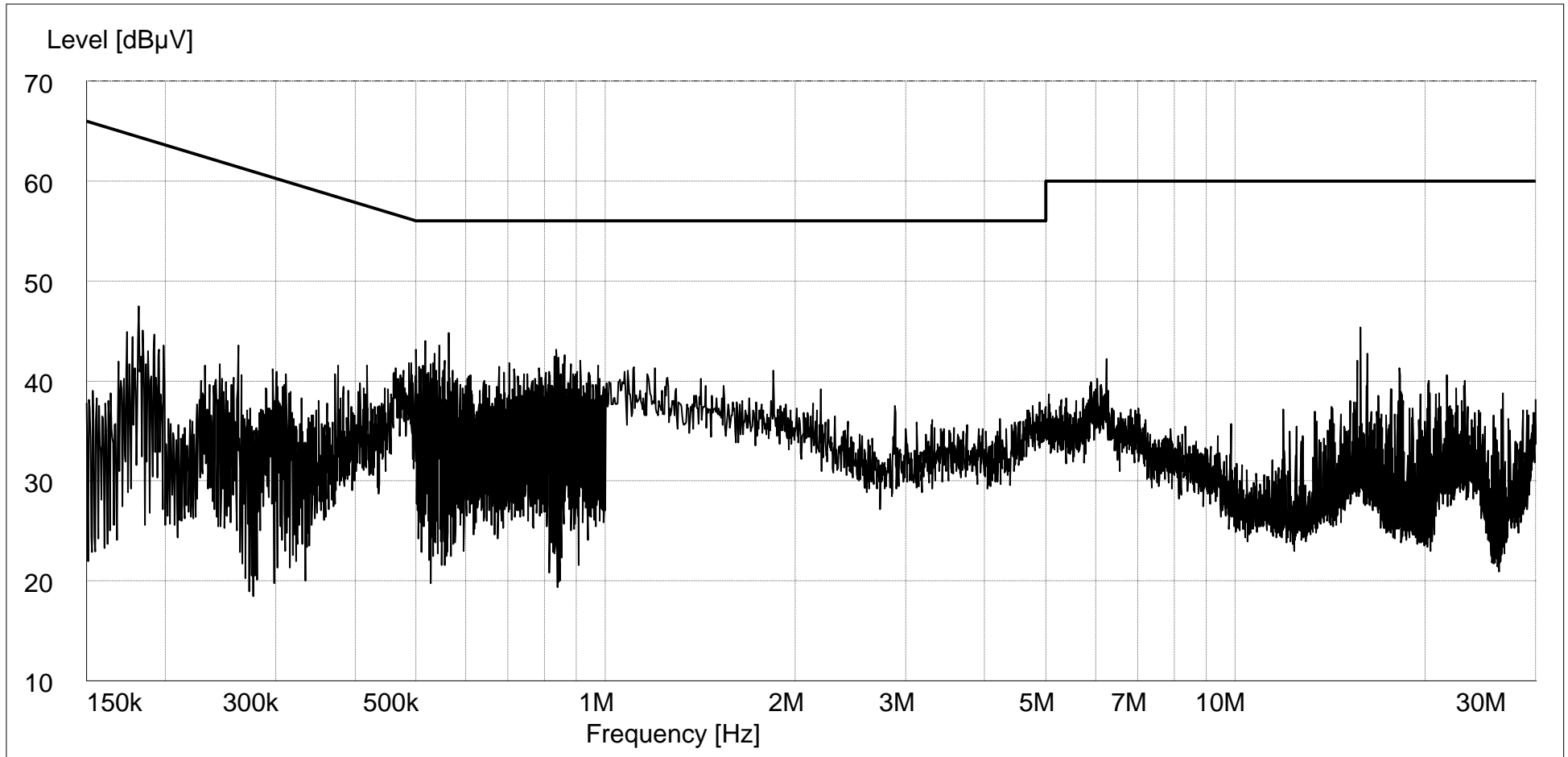
RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Hot Peak Readings to Quasi-Peak Limits.		



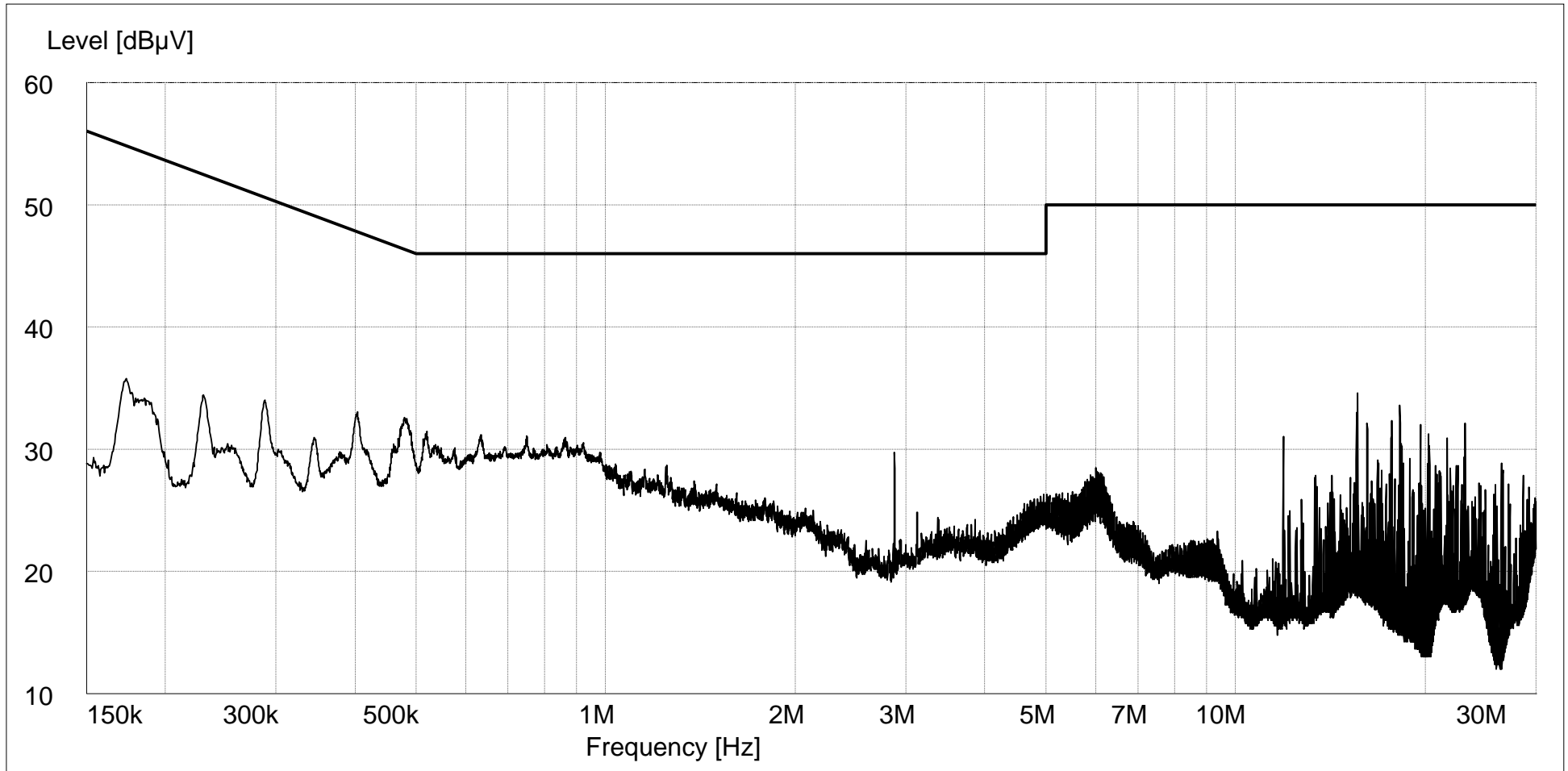
RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Neutral Peak Readings to Quasi-Peak Limits.		



RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Hot Average Readings to Average Limits.		



RETLIF TESTING LABORATORIES

Test Method	Conducted Emissions 150 kHz to 30 MHz		
Customer	Immedia Semiconductor	Job No.	R-6151N-3
Test Sample	Blink Sync Module		
Model No.	BSM00201U	Serial No.	IMS0606441600030
Operating Mode	Exercising USB, WiFi, and 902-928MHz Radio		
Test Specification	FCC Part 15. 207(a)		
Technician	M. Seamans	Date	November 16 th , 2016
Climatic Conditions	Temp: 21.0 °C Relative Humidity: 46.0 %		
Lead Tested	120 VAC 60 Hz Neutral Average Readings to Average Limits.		

