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FCC Part 15, Subpart C, Section 15.247
Test Report

On

Blink Sync Module 2
FCC ID: 2AF77-H2121520

Customer Name:	Immedia Semiconductor, LLC
Customer P.O:	2D-05430728
Date of Report:	July 9, 2021
Test Report No:	R-6601H-3
Test Start Date:	June 14, 2021
Test Finish Date:	June 17, 2021
Test Engineer:	T. Hannemann
Test Technician:	M. Seamans
Approved By:	S. Wentworth
Report Prepared By:	P. Harris

Technical Information

Report Number:	R-6512H-3
Customer:	Immedia Semiconductor, LLC
Address:	100 Riverpark Drive
	North Reading, MA 01864
Manufacturer:	Immedia Semiconductor, LLC
Manufacturer Address:	100 Riverpark Drive
	North Reading, MA 01864
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7 (RF Conducted Testing) G8T1-V700-1173-008C (Radiated and Conducted Testing)
FCC ID:	2AF77-H2121520
Type:	Digital Transmission - Direct Sequence Spread Spectrum Transmitter
Power Requirements:	5 VDC via External 120 VAC power adapter
Frequency of Operation:	2412 MHz to 2462 MHz
Equipment Class:	DTS
Antenna Type:	Internal PCB Antenna – 3.95 dBi Gain
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
FCC 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Test Facility:
Retlif Testing Laboratories
101 New Boston Road
Goffstown, NH 03045

FCC Designation Number: US5327

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(a)	Conducted Emissions, Power Leads, 150 kHz to 30 MHz

EUT Operation:
The EUT (Sync Module) is part of the Blink Home Security Camera System. It connects to internet based Blink Servers through its users Wi-Fi access point and relays command and control information from the user to Blink Camera Modules over a FHSS bi-directional proprietary radio protocol in the 902 to 928 MHz Band. The expected location of the device is inside a residence within range of its user's Blink Camera Module and Wi-Fi access point.

Table 1 – Support Equipment

Description	Manufacturer	Model Number	Serial Number
Laptop PC	HP	Probook 450 G5	5C08390CBN
Ethernet Switch	Tp-Link	TL-SG1005P	Y206050001058
USB Memory Stick	N/A	N/A	N/A

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

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 report must not be used by the client to claim product endorsement by ANSI National Accreditation Board (ANAB).

Revision History

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

Revision	Date	Pages Affected
-	July 9, 2021	Original Release

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 9,919 kHz which complies with the requirement that the Bandwidth be no less than 500 kHz.

Conducted Emissions, Duty Cycle
The EUT's on time was measured over a multiple measurement interval of 10 mS, the duty cycle was for each measurement interval

- **Results**:
- The Duty cycle was measured to be <98% with a variation of >2% between measurements. Requiring the use of power output method AVGSA-3, per ANSI C63-10:2013

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 80.91 mW. The maximum antenna gain of the PCB antenna is 3.95 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.

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).

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 2.

Table 2 - 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 2.

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 3, as measured using a 50 µH/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 3 - Conducted Emission Limits

Frequency of Emission (MHz)	**Conducted Limit (dBµV)**	
	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 3.

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 dBµV/m
M_R = Uncorrected Meter Reading in dBµV
C_F = Correction Factor in dB (Antenna Factor, Pre-amp + Cable Loss)

Example:

M_R = 15.35 dBµV
C_F = 16.85 dB
C_R = 15.35 dBuV + 16.85 = 32.2 dBµV/m

dBµV/M is converted to uV/M for comparison to the specified limit using the formula:

invLog dBµV/M/20

32.2 dBuV/m = 40.74 uV/m

RF Power Conversion:

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

InvLog dBm/10

Example: 20dBm = 100mW

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 access 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.

$$S = \frac{PG}{4 \prod Dsq}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For the Frequency of 2480 MHz S = 1 mW/cmsq

Power = Max Power Input to Antenna = 80.91mW

Gain = Max Power Gain of Antenna = 3.95 dBi = 2.48 numeric

$$1 \text{ mW/cmsq} = \frac{80.91 \times 2.48}{4 \times (3.14) \times D^2} = \frac{200.66}{12.56 \times D^2}$$

$$D^2 = \frac{200.66}{12.56 \times 1}$$

$$D = \sqrt{15.98} = 4 \text{ cm}$$

Equipment List

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

FCC Section 15.247(b)(3)
Power Output

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

FCC Section 15.247(d)
Antenna Port, Conducted Emissions

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5133	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz, 2 W	757C-10	12/8/2020	12/31/2021
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

FCC Section 15.247(e)
Antenna Port, Power Density

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

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	2/12/2021	2/28/2022
3427B	ETS / EMCO	ANTENNA, BICONICAL	20 - 200 MHz	3104	10/27/2020	4/30/2022
3430	MCS	ANTENNA, HORN	18 - 26.5 GHz	K-5039	No Calibration Required	
4029B	RETLIF	OPEN AREA TEST SITE, ATTENUATION	3 / 10 Meters	RNH	9/30/2019	9/30/2021
443	ELECTRO-METRICS	ANTENNA, LOG PERIODIC	200 MHz - 1000 MHz	LPA-25	12/13/2019	6/30/2021
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5195	ETS / EMCO	ANTENNA, DOUBLE RIDGED GUIDE	1 - 18 GHz	3117	7/15/2020	1/31/2022
5211	COM-POWER	GENERATOR, COMB	1 MHz - 1 GHz	CGO-501	5/21/2021	5/31/2022
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
5242	TELEDYNE MICROWAVE	CABLE, COAXIAL 106'	10 kHz - 6 GHz	PR90-195-1275,	9/21/2020	9/30/2021
5259	DYNAWAVE	CABLE, COAXIAL	DC - 40 GHz	DT-NS-072	12/16/2020	12/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

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

EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5133	NARDA MICROWAVE	ATTENUATOR, COAXIAL	10 dB, DC - 12.4 GHz, 2 W	757C-10	12/8/2020	12/31/2021
5188	Cybertron	COMPUTER, CONTROL	N/A	TSVQJA2221	No Calibration Required	
5209	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	4/28/2021	4/30/2022
5210	SOLAR ELECTRONICS	LISN	50 uH, 150 kHz - 30	21106-50-BP-25-BNC	4/28/2021	4/30/2022
5218	COM-POWER	GENERATOR, COMB	100 kHz - 400 MHz	CGC-510E	8/24/2020	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

Duty Cycle

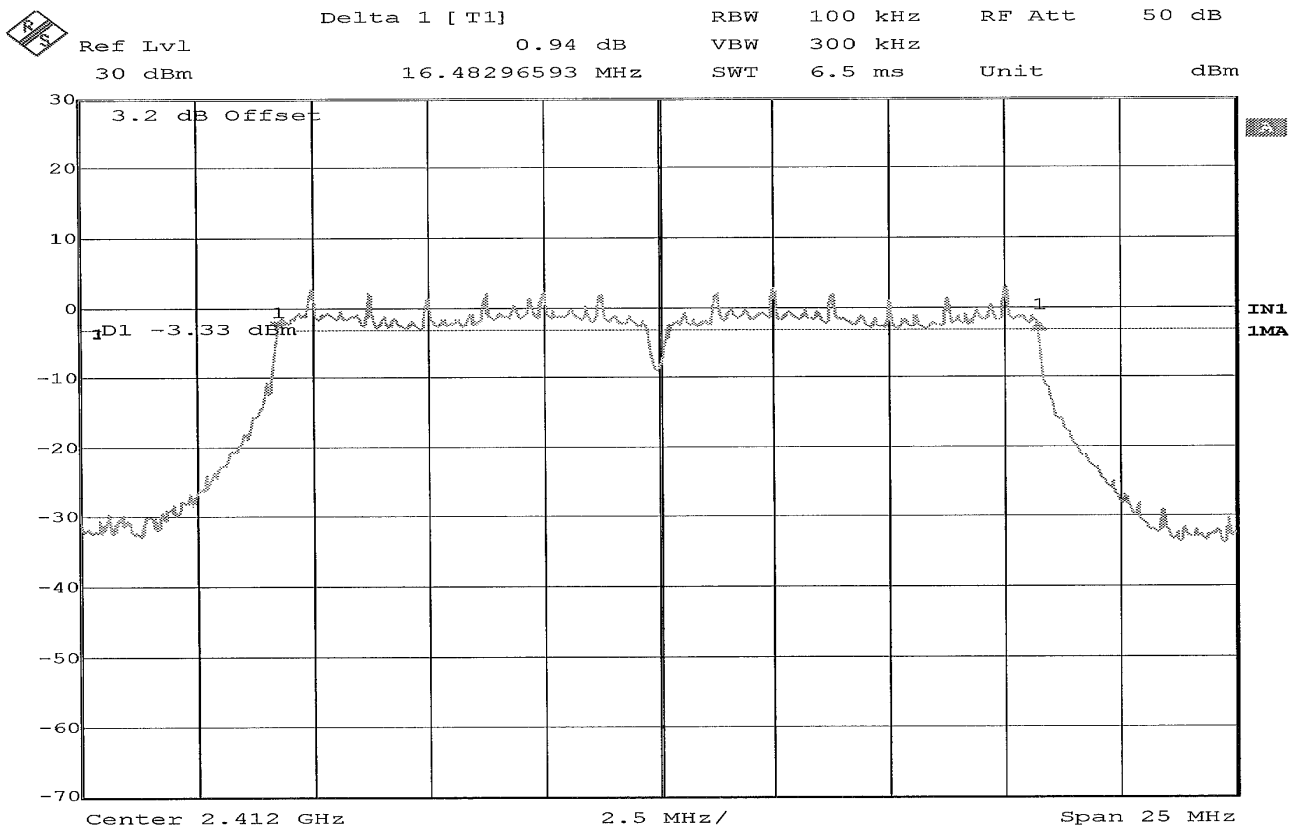
EN	Manufacturer	Description	Range	Model No.	Cal Date	Due Date
5229	FLORIDA RS TECHNOLOGY	CABLE, COAXIAL	DC - 40 GHz	FLRST-2.92 (102ö)	2/24/2021	8/31/2021
7044	OMEGA	HYGROMETER	-20 to 70 deg. C, 0 to 99% RH	OM-73	8/21/2020	8/31/2021
896	ROHDE & SCHWARZ	RECEIVER, EMI	20 Hz - 40 GHz	ESIB40	1/29/2021	1/31/2022

Test Photographs
Occupied Bandwidth (6dB Bandwidth)

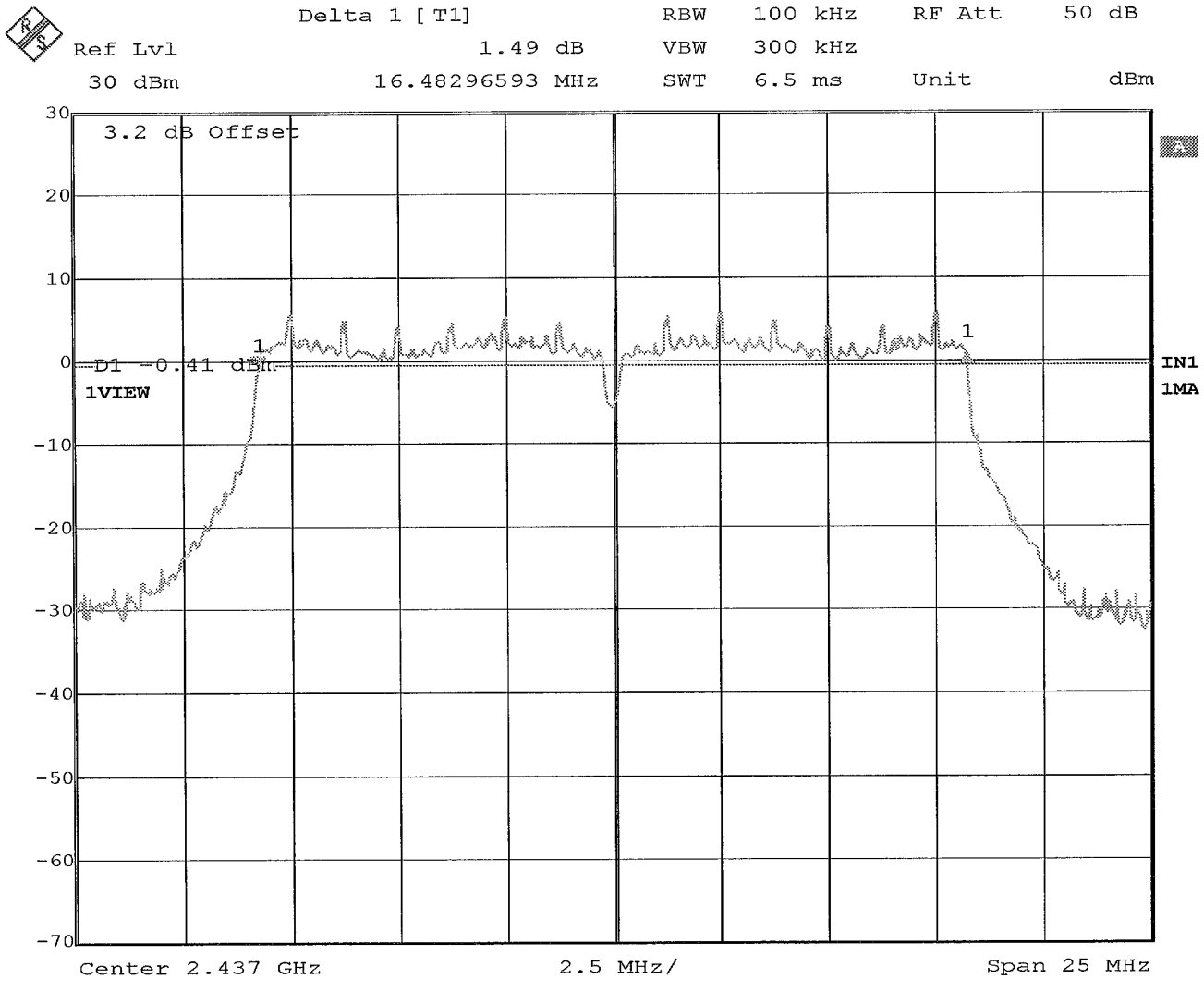
EUT Configuration

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

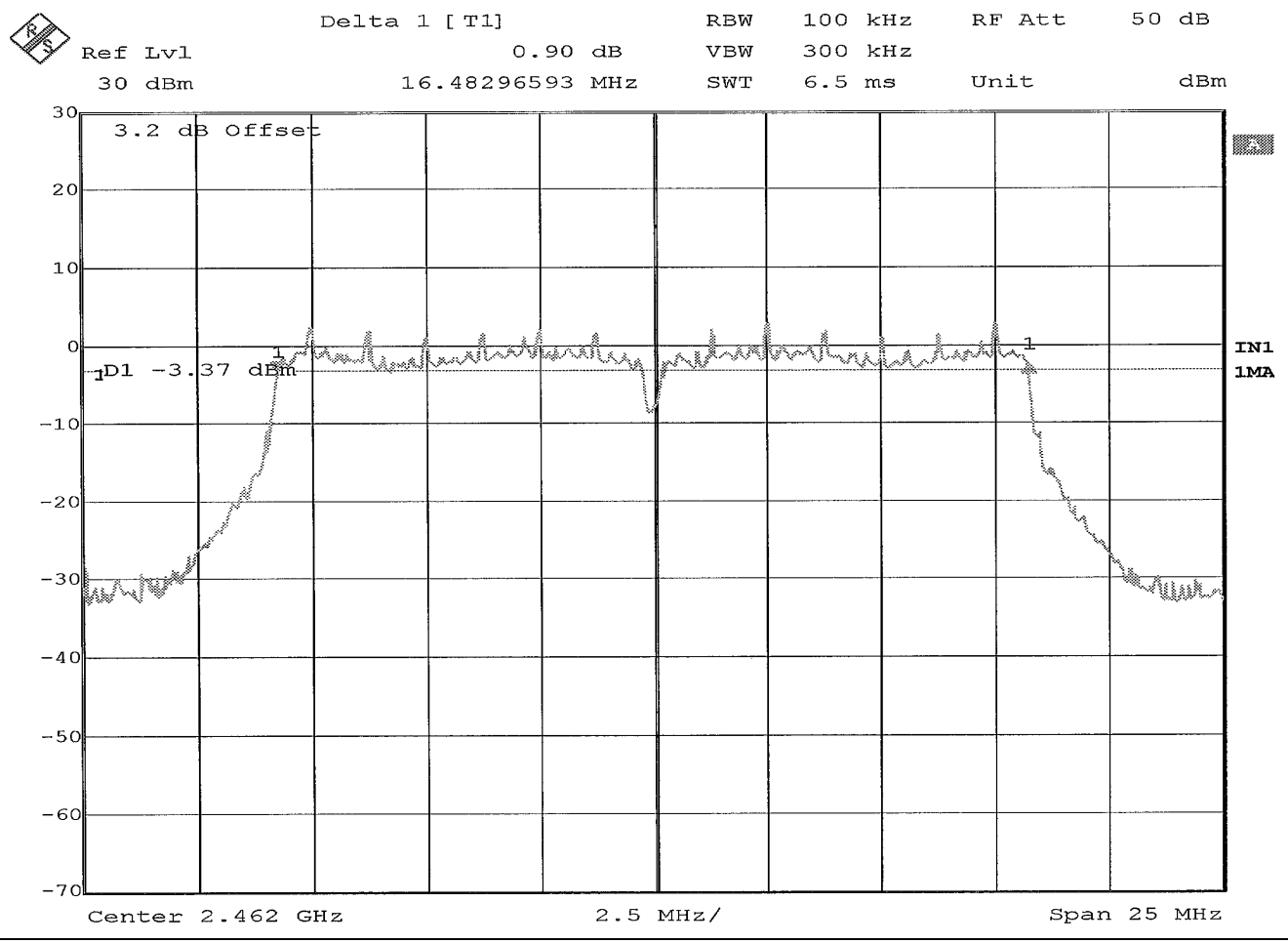
EMISSIONS TEST DATA SHEET	
Method:	**DTS Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 16.482 MHz



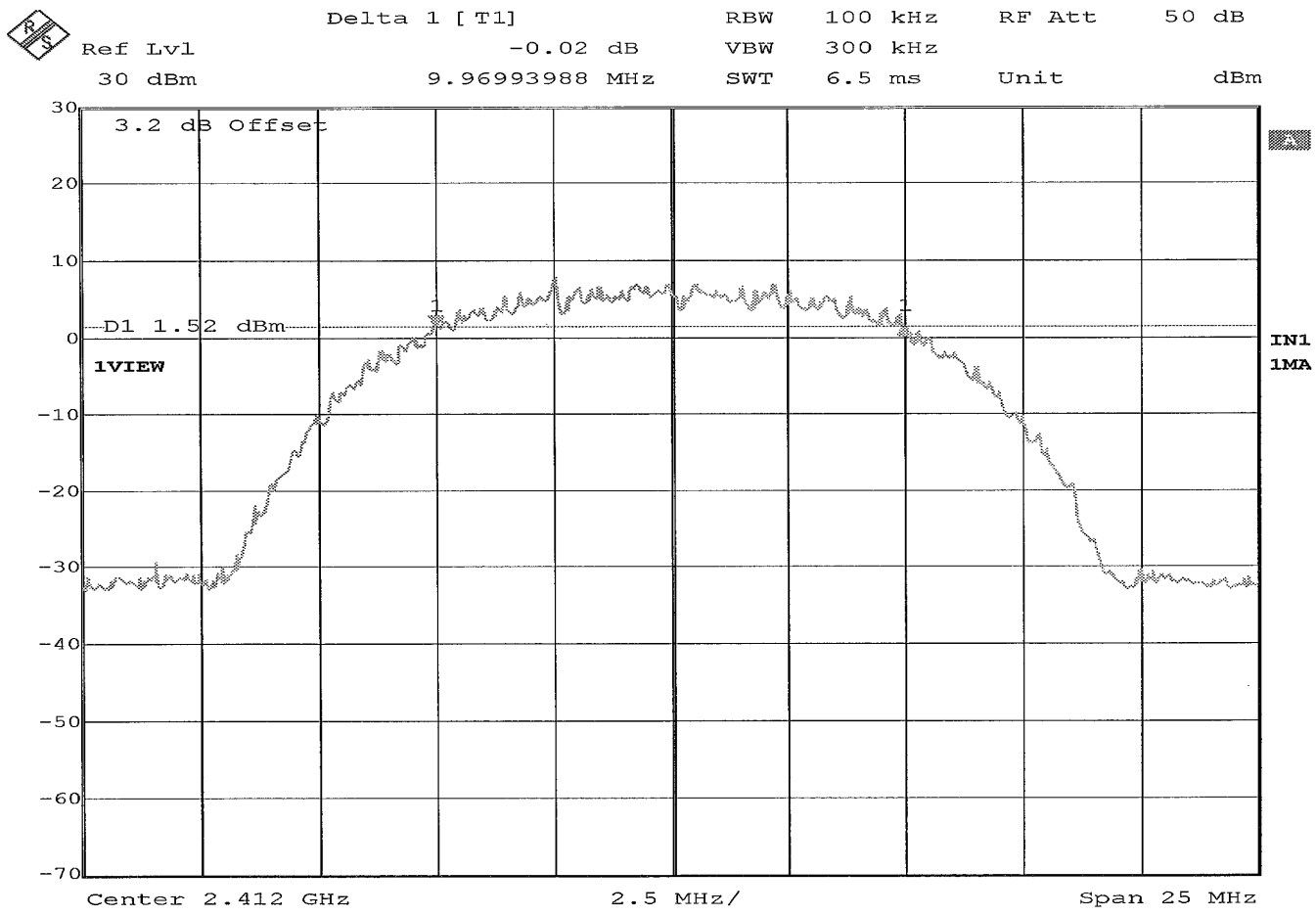
EMISSIONS TEST DATA SHEET	
Method:	**DTS Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 16.482 MHz



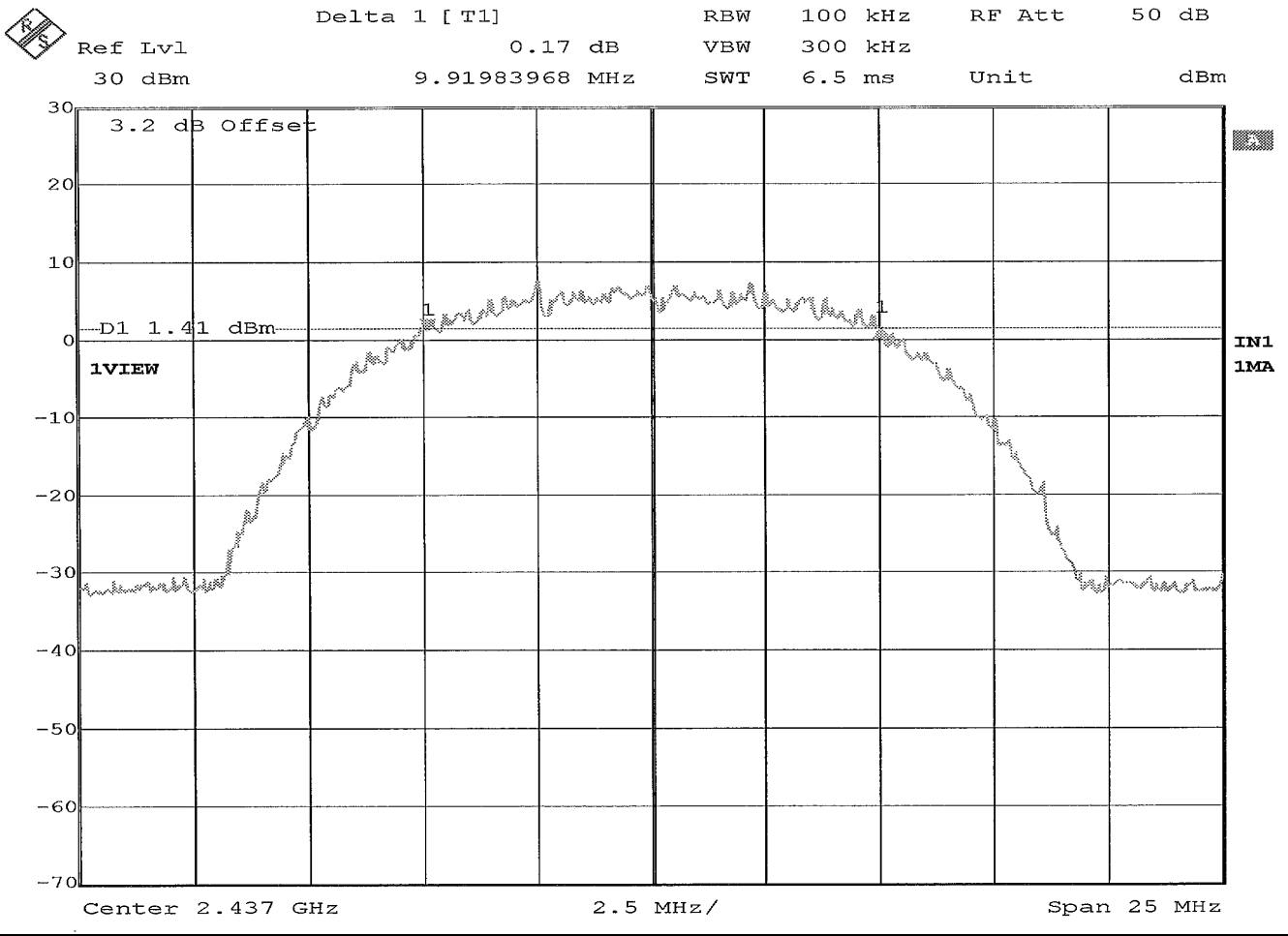
EMISSIONS TEST DATA SHEET	
Method:	**DTS Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 16.482 MHz



EMISSIONS TEST DATA SHEET	
Method:	**DTS Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 9.969 MHz



EMISSIONS TEST DATA SHEET	
Method:	**DTS Bandwidth**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (a)(2)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 9.919 MHz



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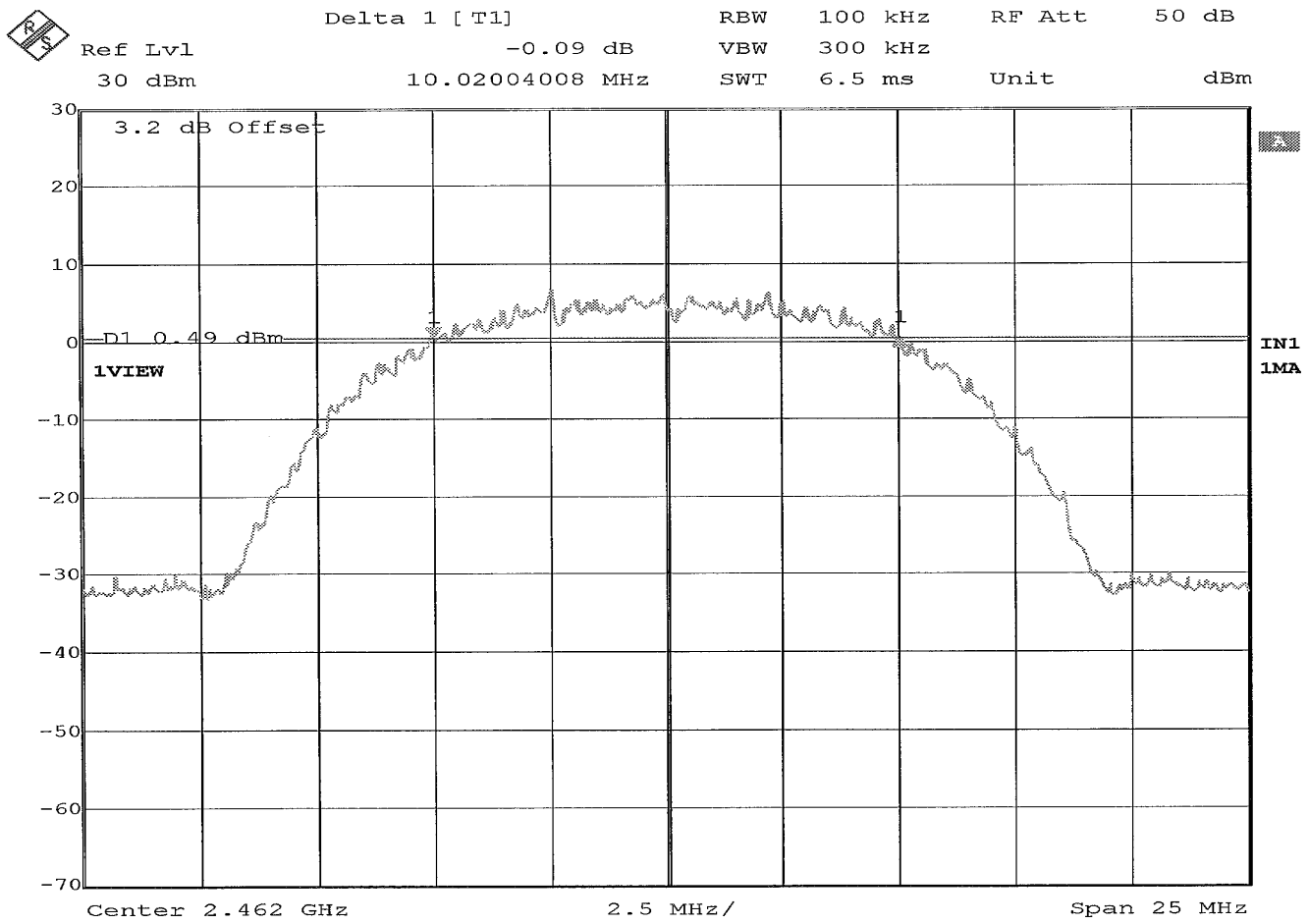
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 10.020 MHz



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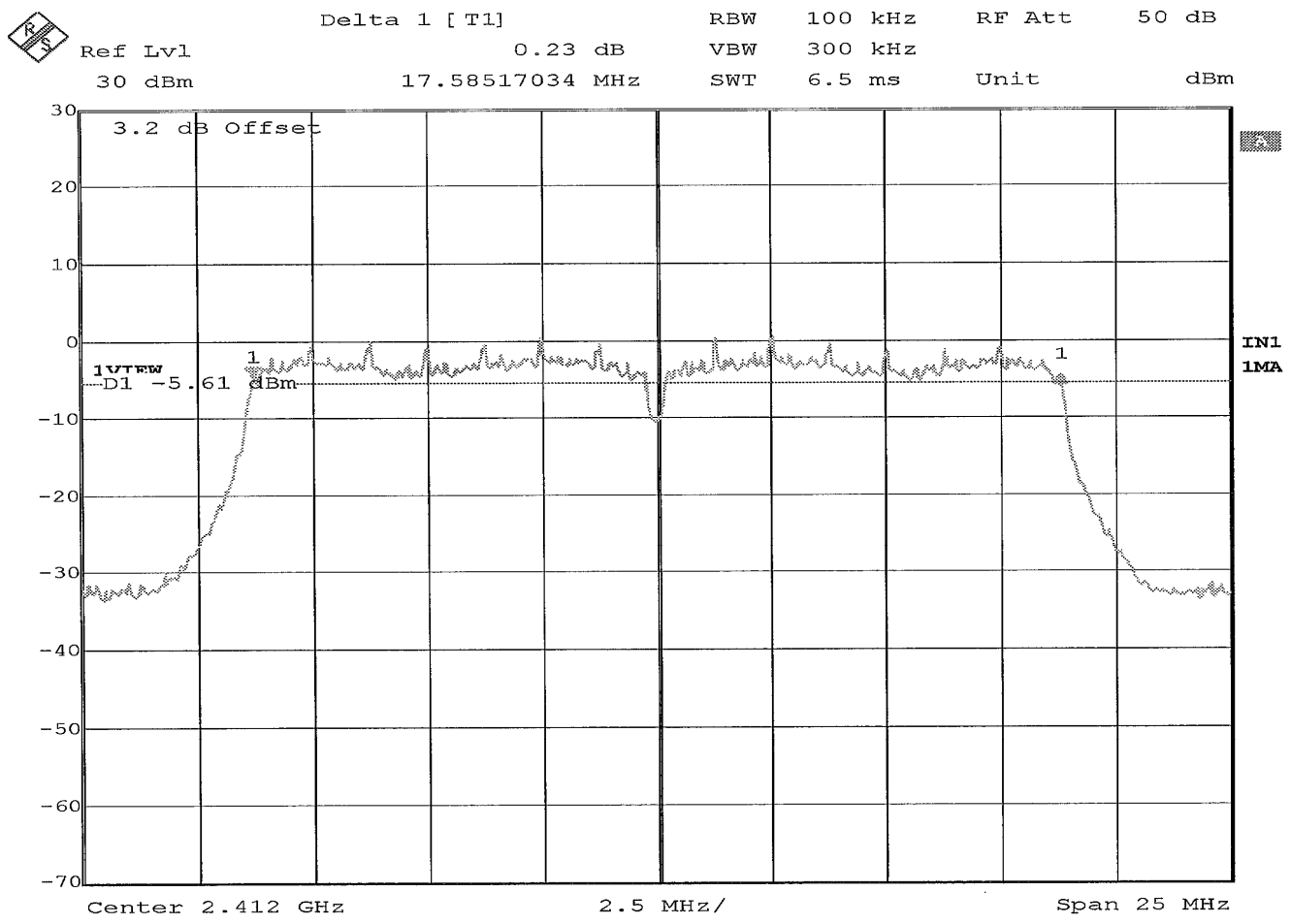
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 17.585 MHz



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Technician:	M. Seamans
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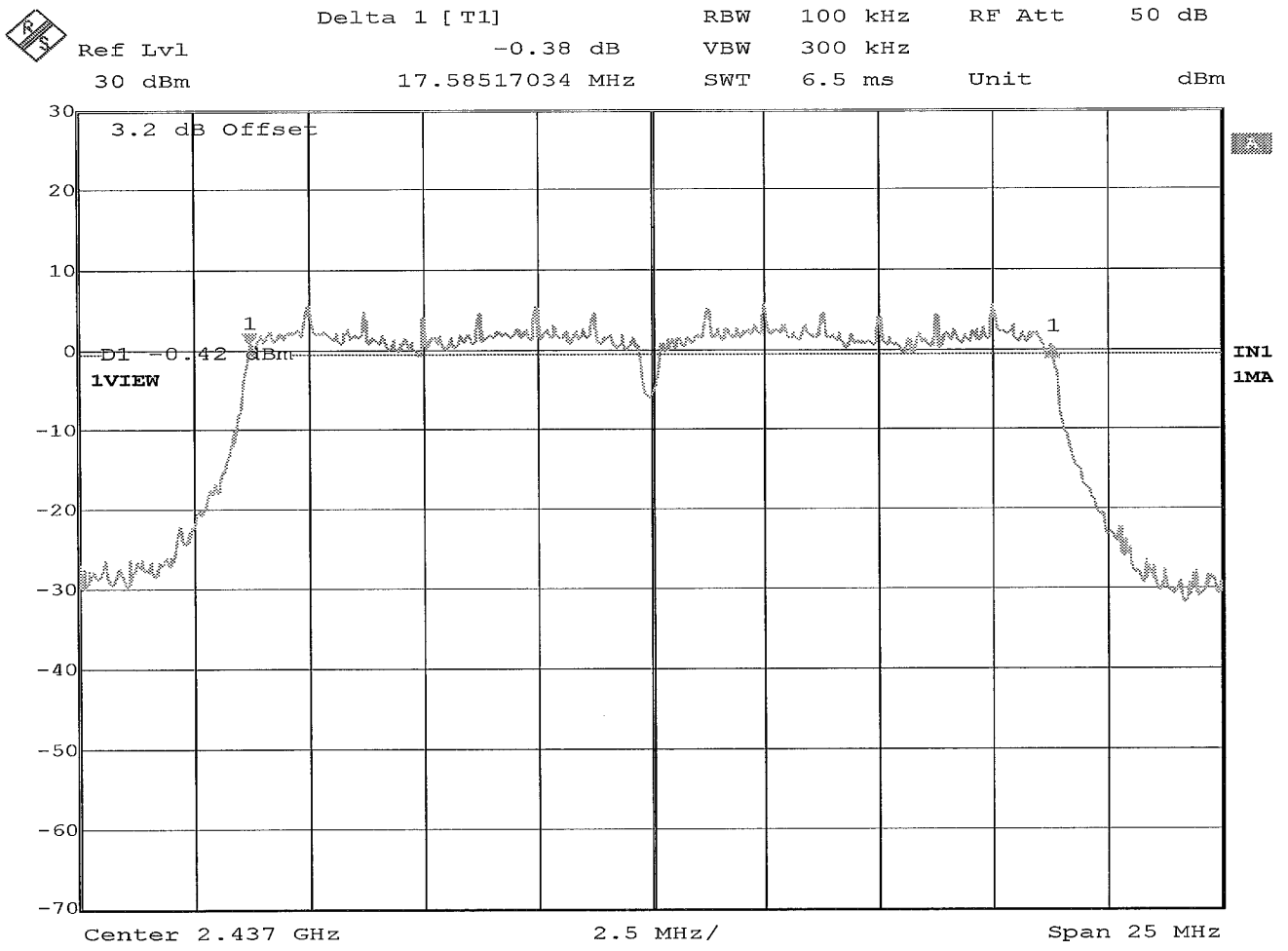
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 17.585 MHz



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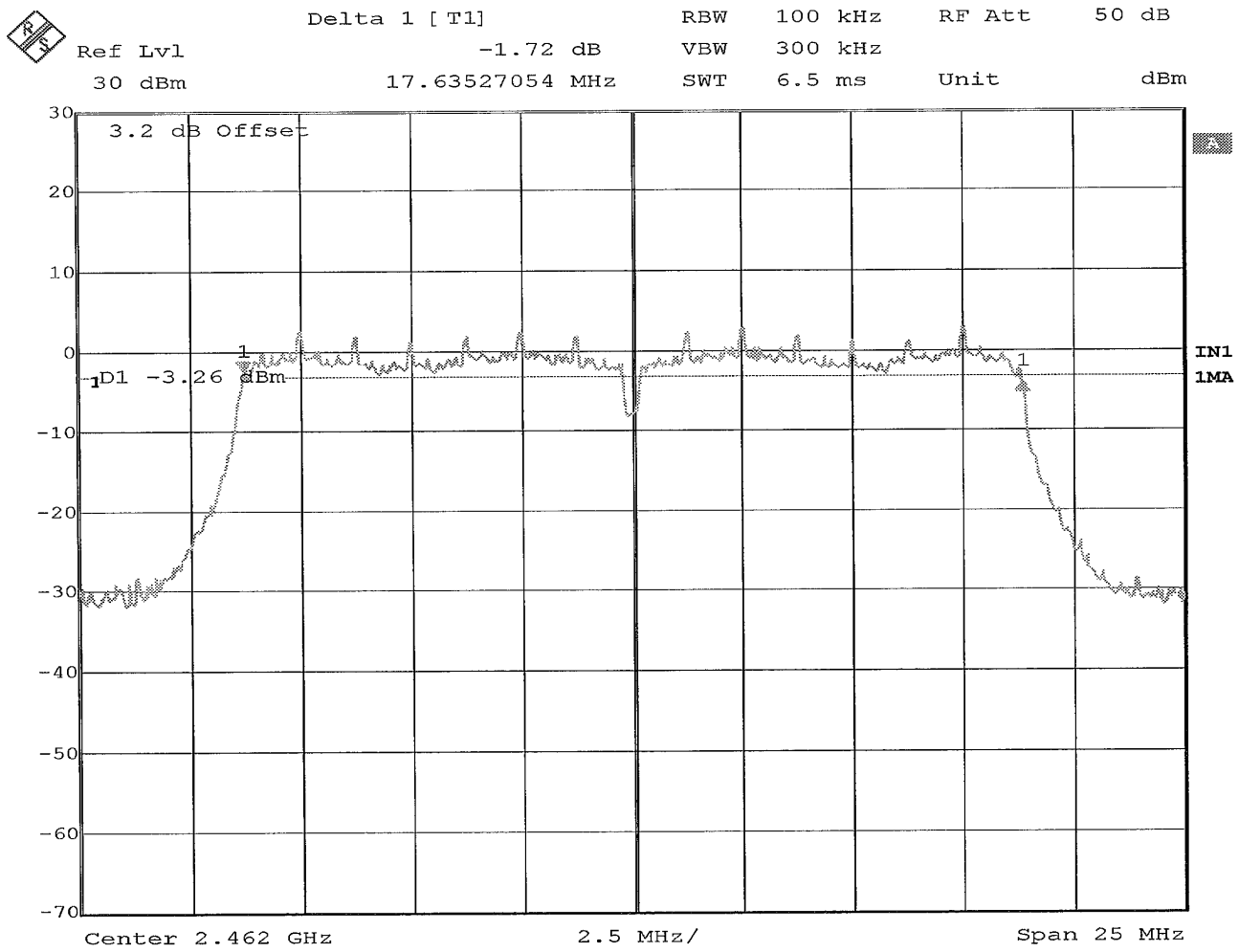
Operating Mode:	Transmitting modulated signal (Non11) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.7 °C / 51.5 %
Notes:	6dB Bandwidth: 17.635 MHz



Test Photographs
Conducted Emissions, Power Output

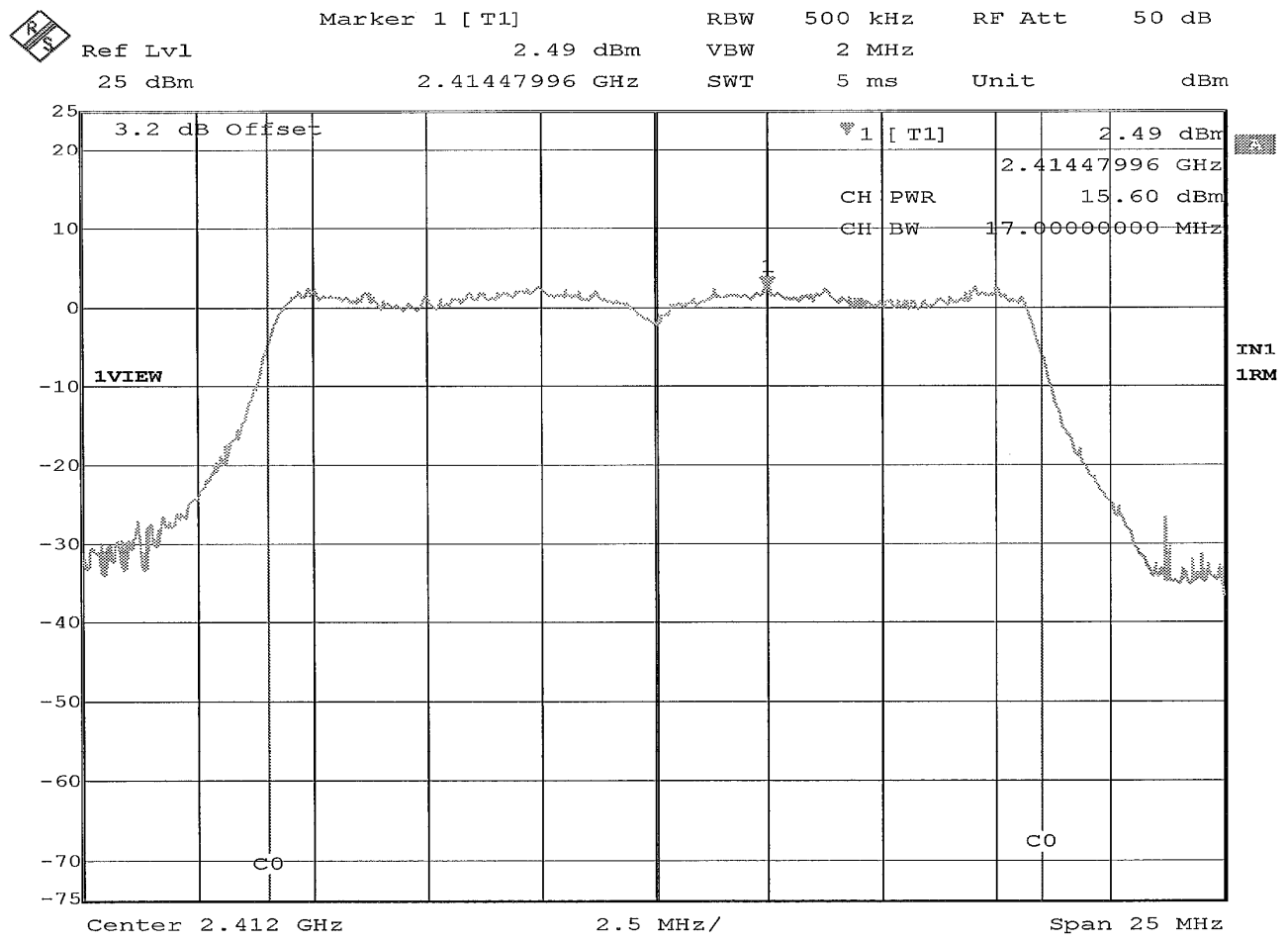
EUT Configuration

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

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (OFDM) at 2412 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3

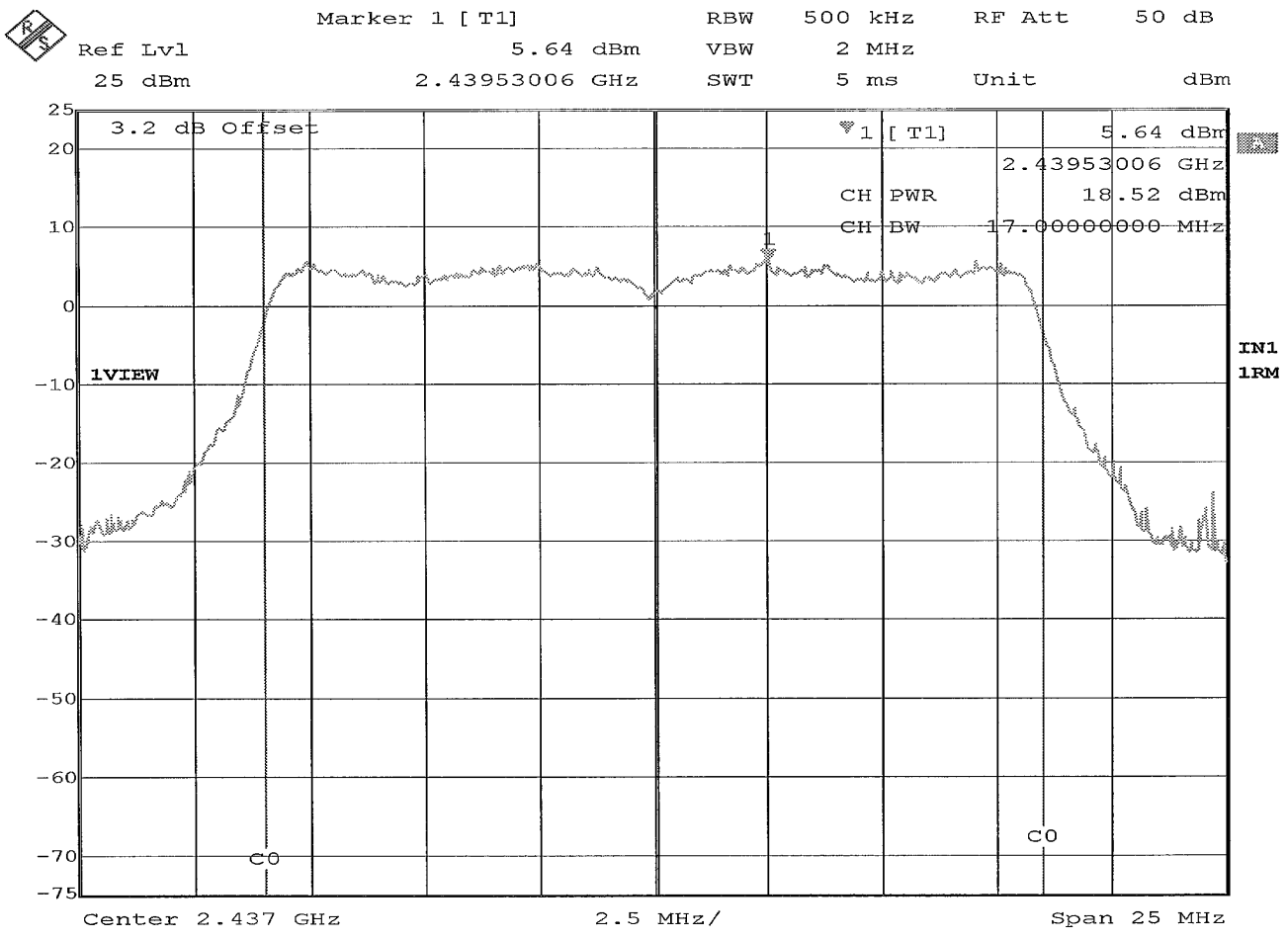


Power Output: 15.60 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (OFDM) at 2437 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3



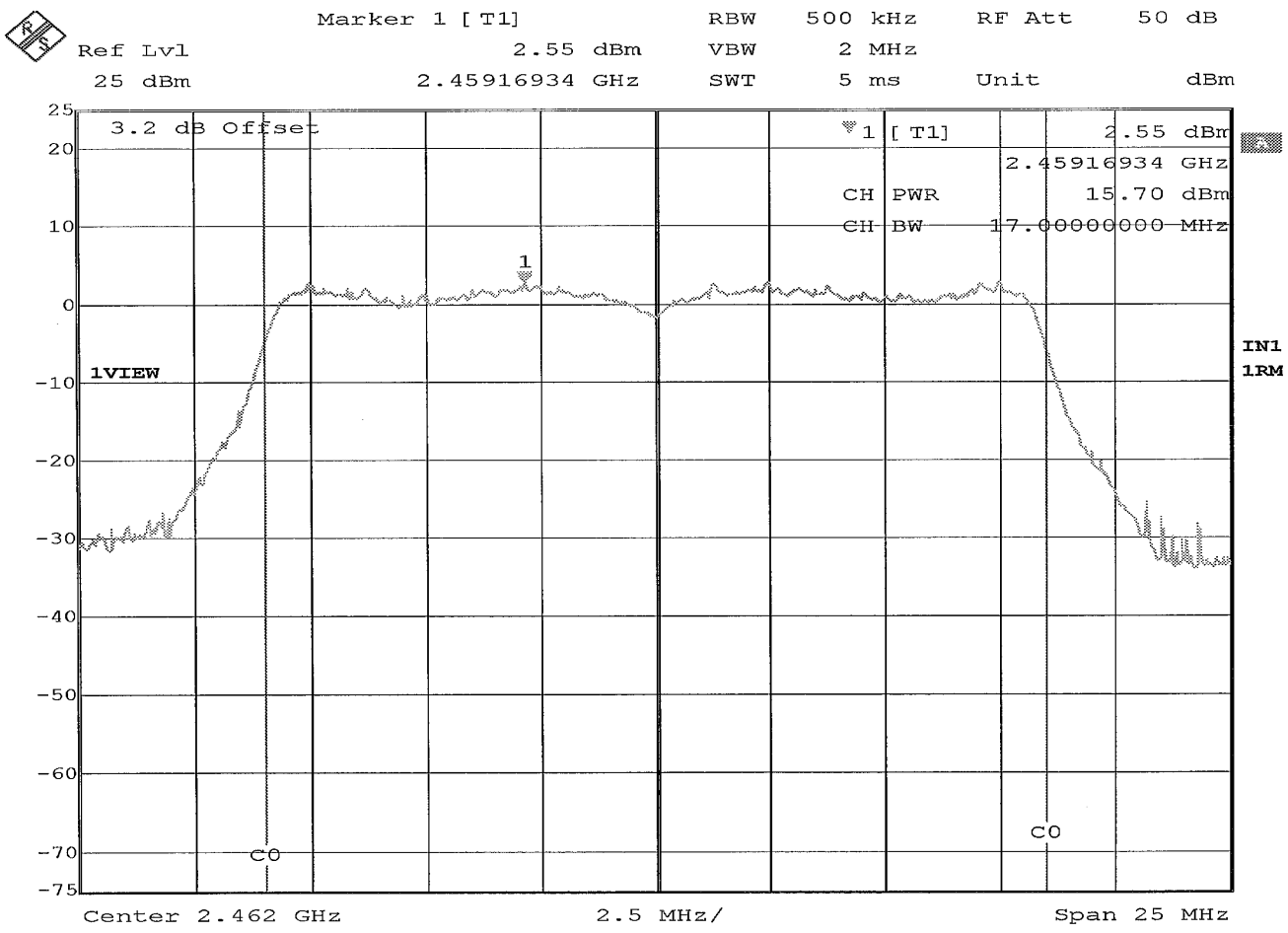
Power Output: 18.52 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (OFDM) at 2462 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3

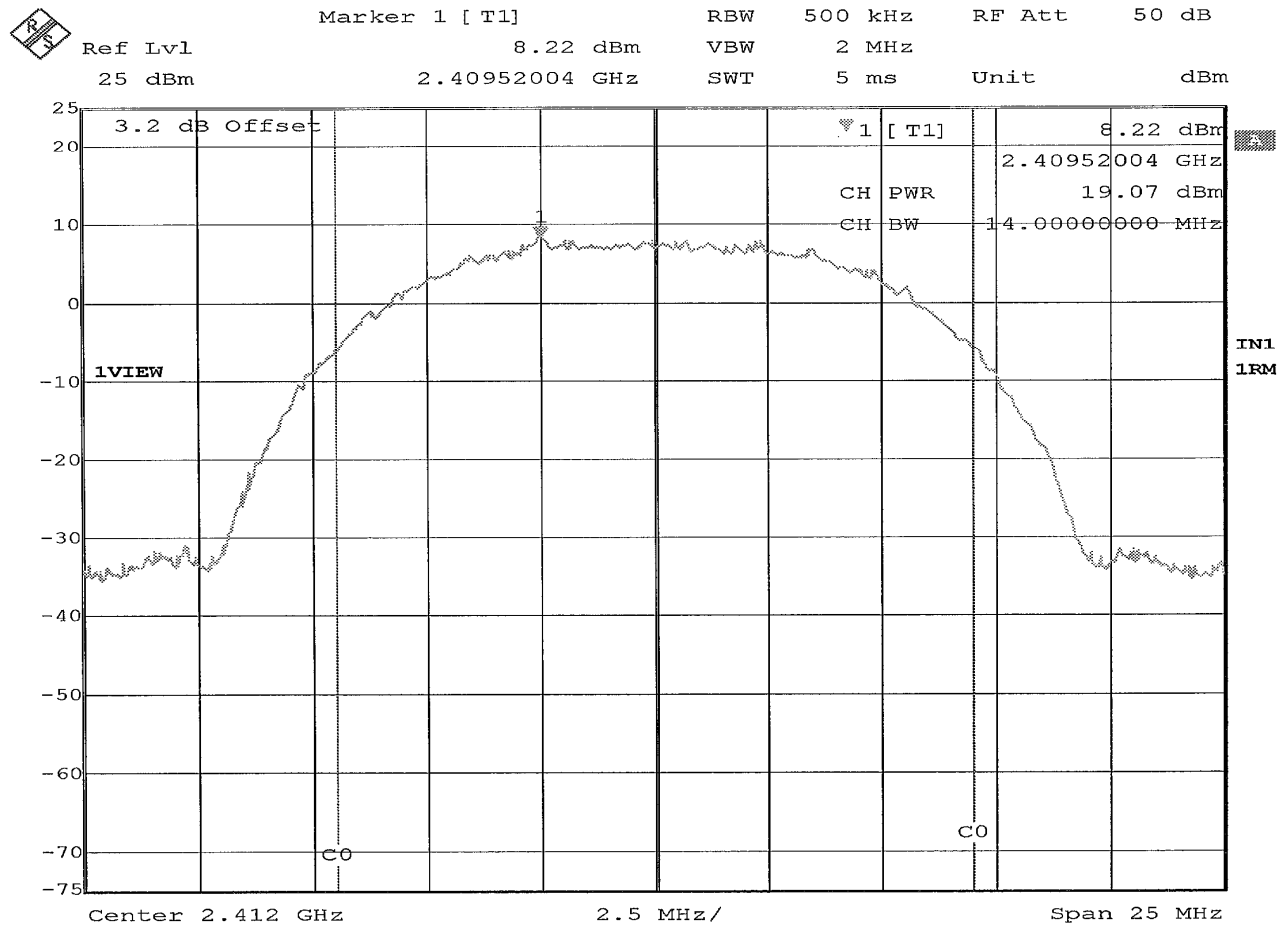


Power Output: 15.70 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (DSSS) at 2412 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3

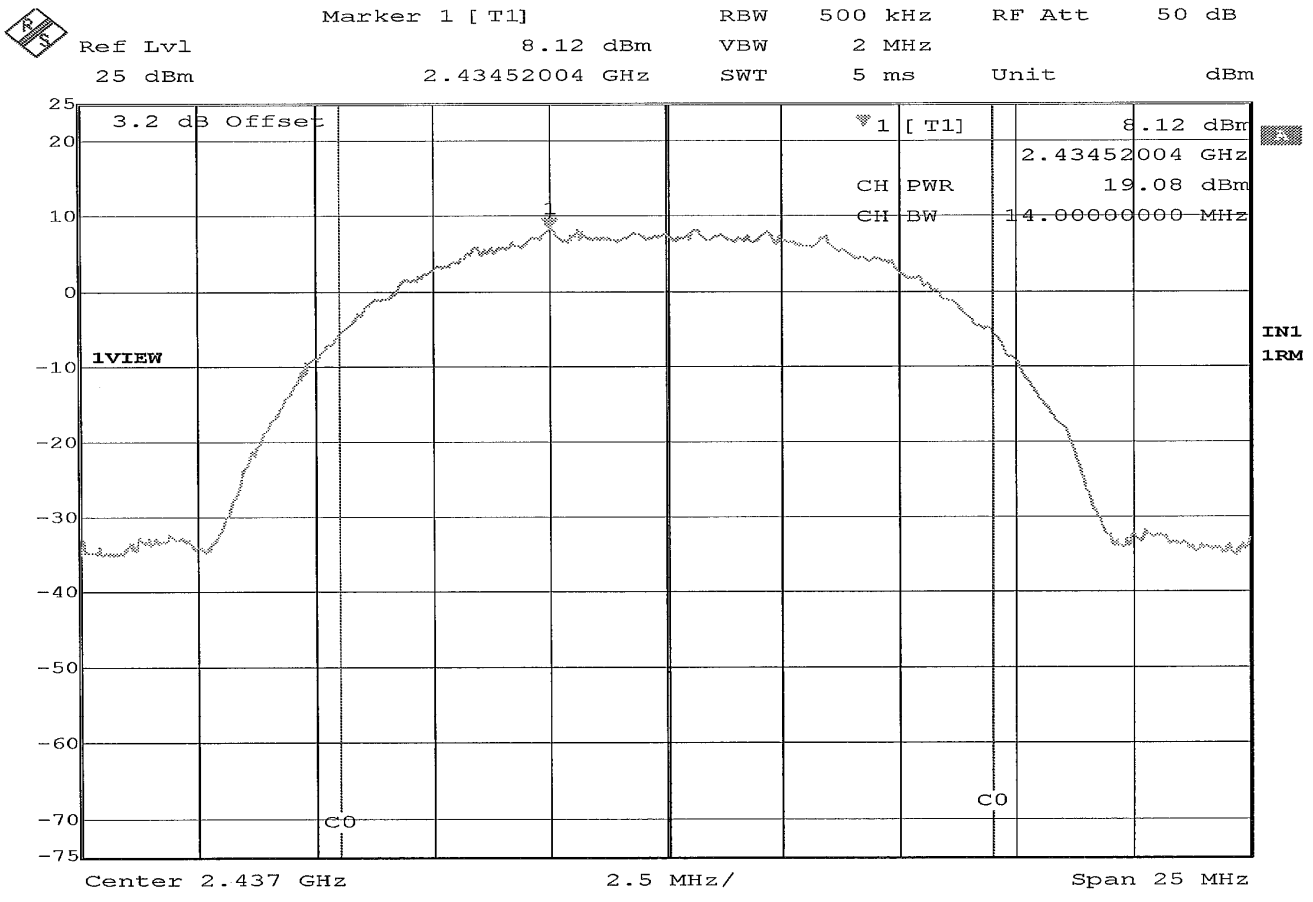


Power Output: 19.07 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (DSSS) at 2437 MHz
Technician	M. Seamans
Date	June 14th, 2021

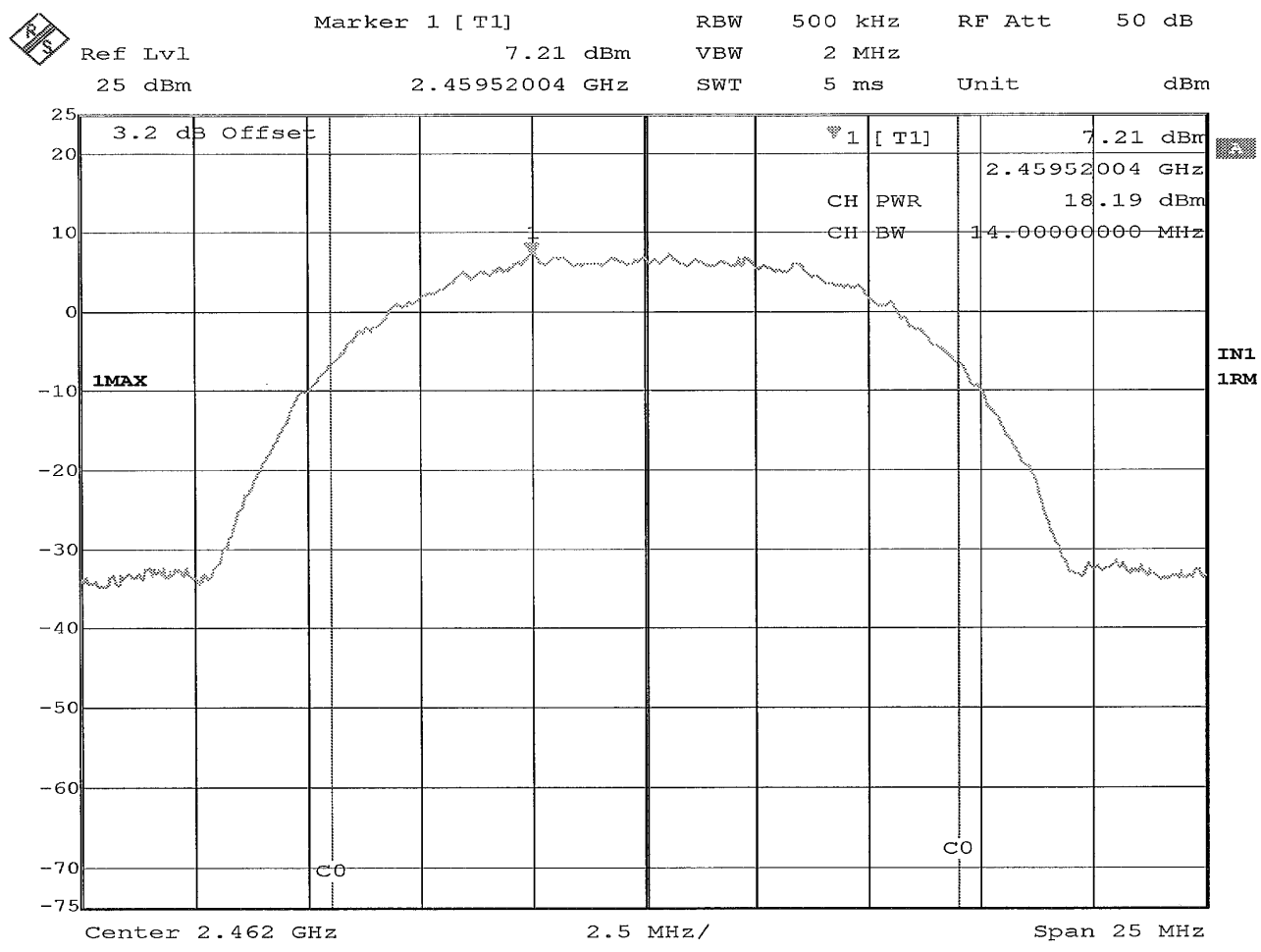
Notes: Measurement method: AVGSA-3



Power Output: 19.08 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (DSSS) at 2462 MHz
Technician	M. Seamans
Date	June 14th, 2021
Notes: Measurement method: AVGSA-3	

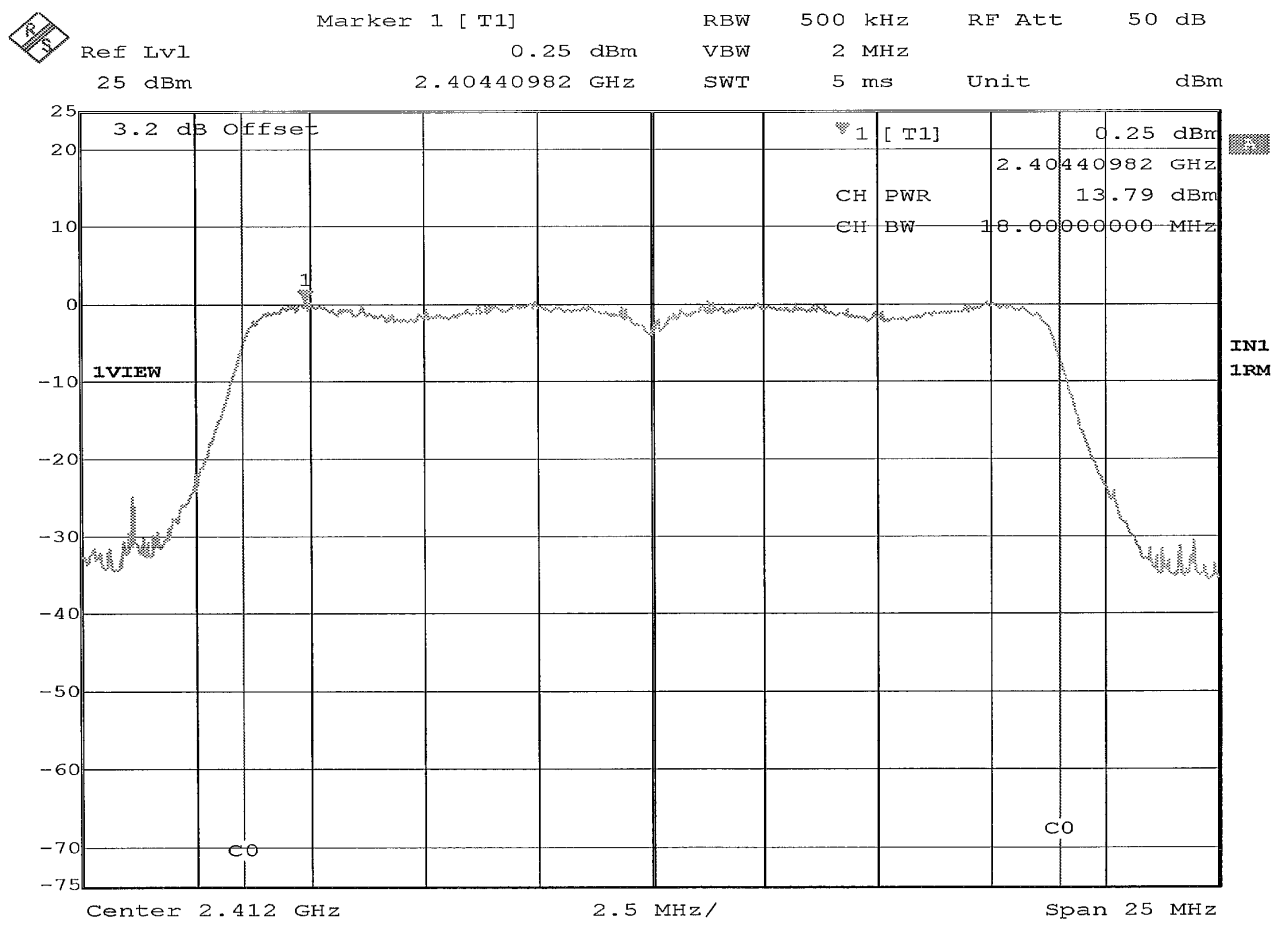


Power Output: 18.19 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (Non11) at 2412 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3



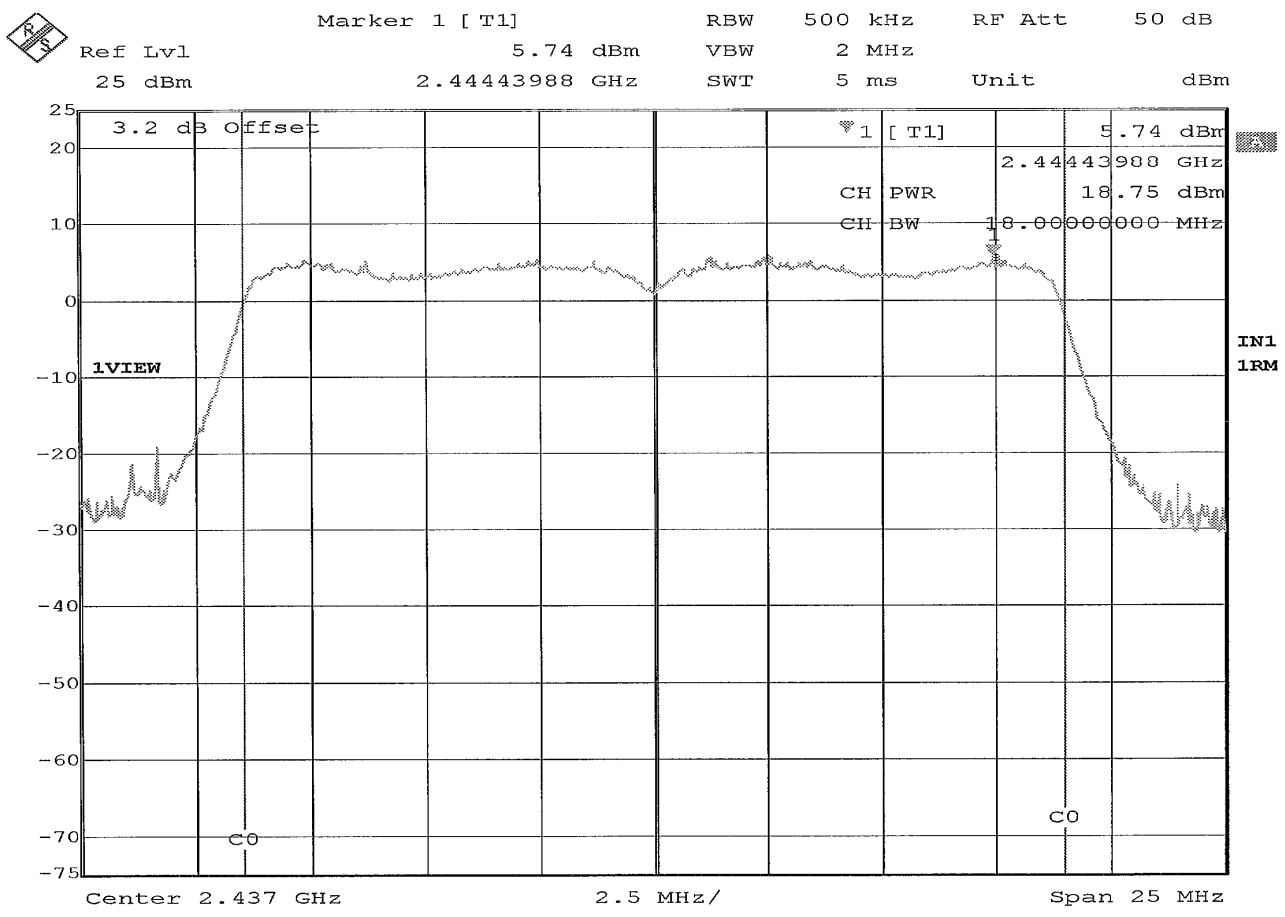
Power Output: 13.79 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (Non11) at 2437 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3

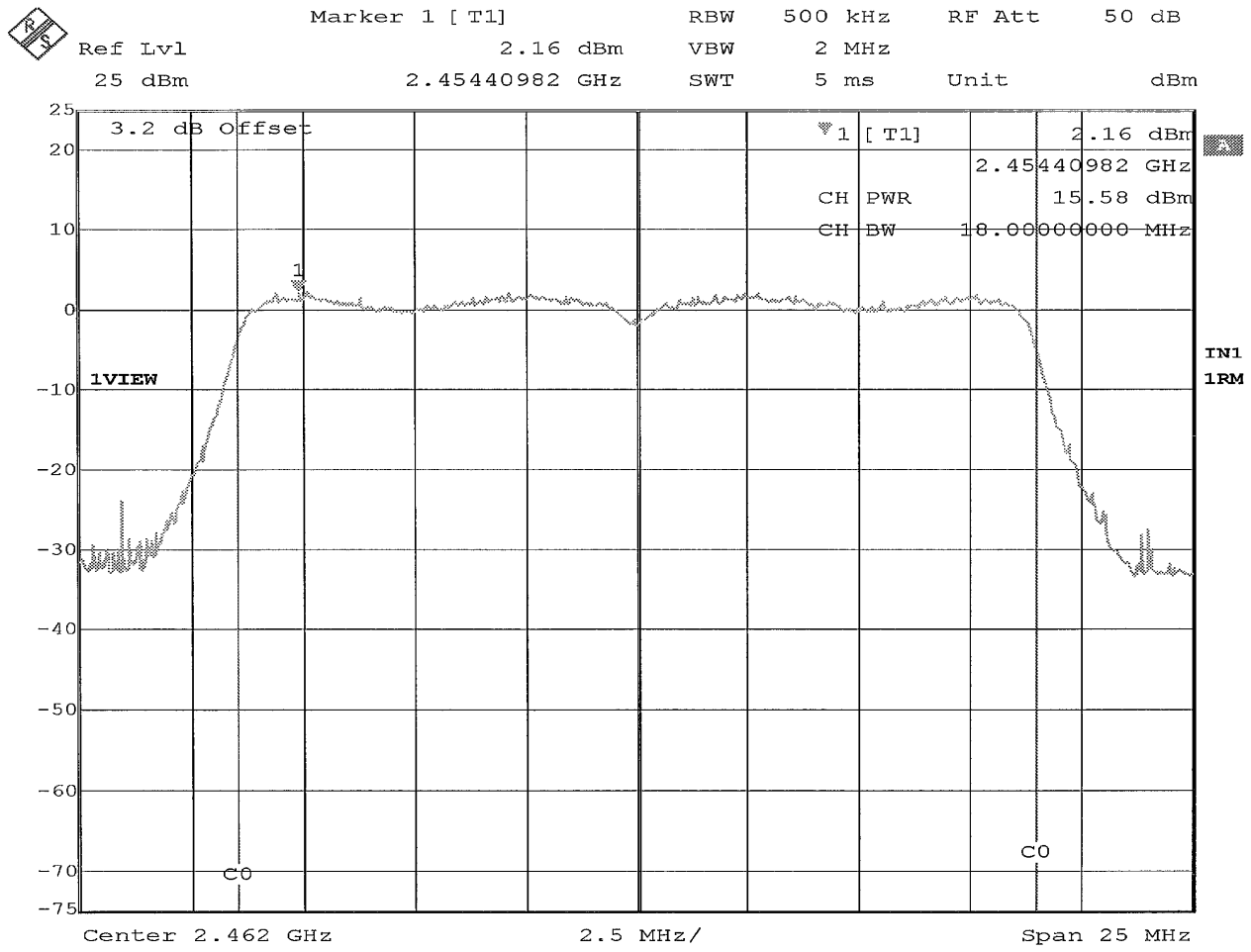


Power Output: 18.75 dBm

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Peak Power Output**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-00B7
Test Specification	FCC Part 15, Subpart C Paragraph 15.247 (b)(3)
Operating Mode	Transmitting modulated signal (Non11) at 2462 MHz
Technician	M. Seamans
Date	June 14th, 2021

Notes: Measurement method: AVGSA-3



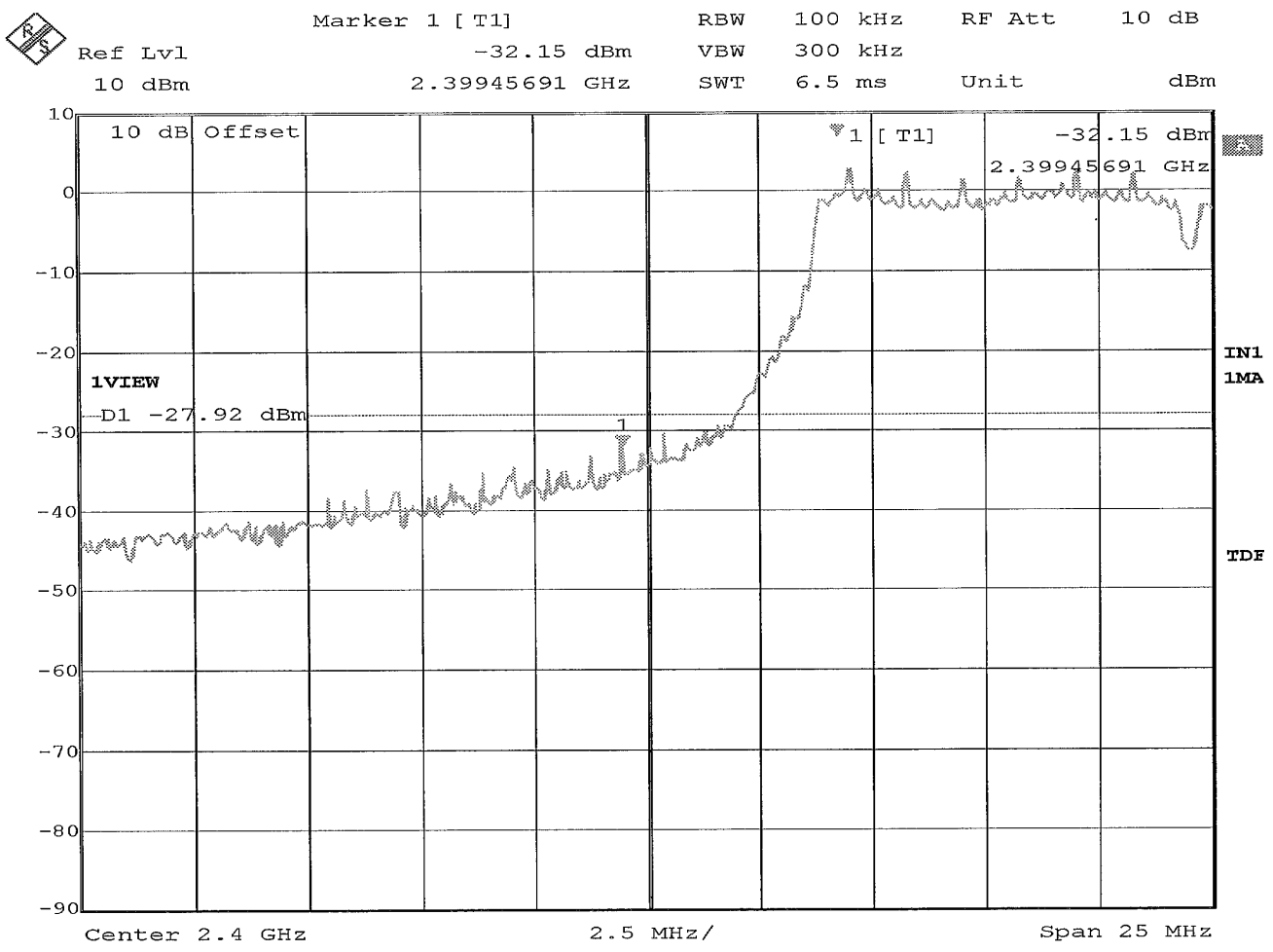
Power Output: 15.58 dBm

Test Photographs
Antenna Port, Conducted Emissions

EUT Configuration

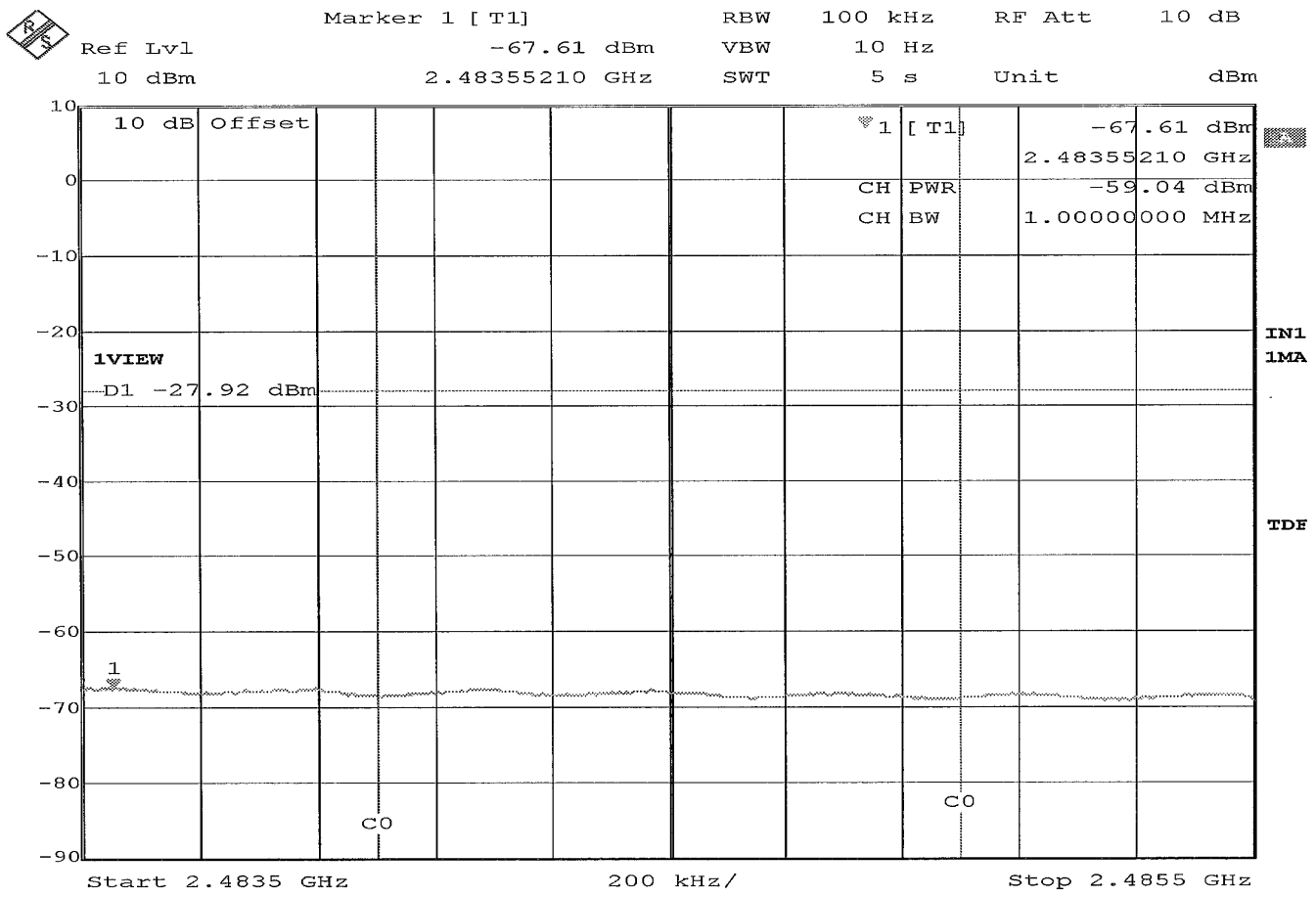
FCC Part 15, Subpart C, Section 15.247(d)
Antenna Port, Conducted Emissions
Band Edge Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -32.15 dBm Limit: -27.92 dBm



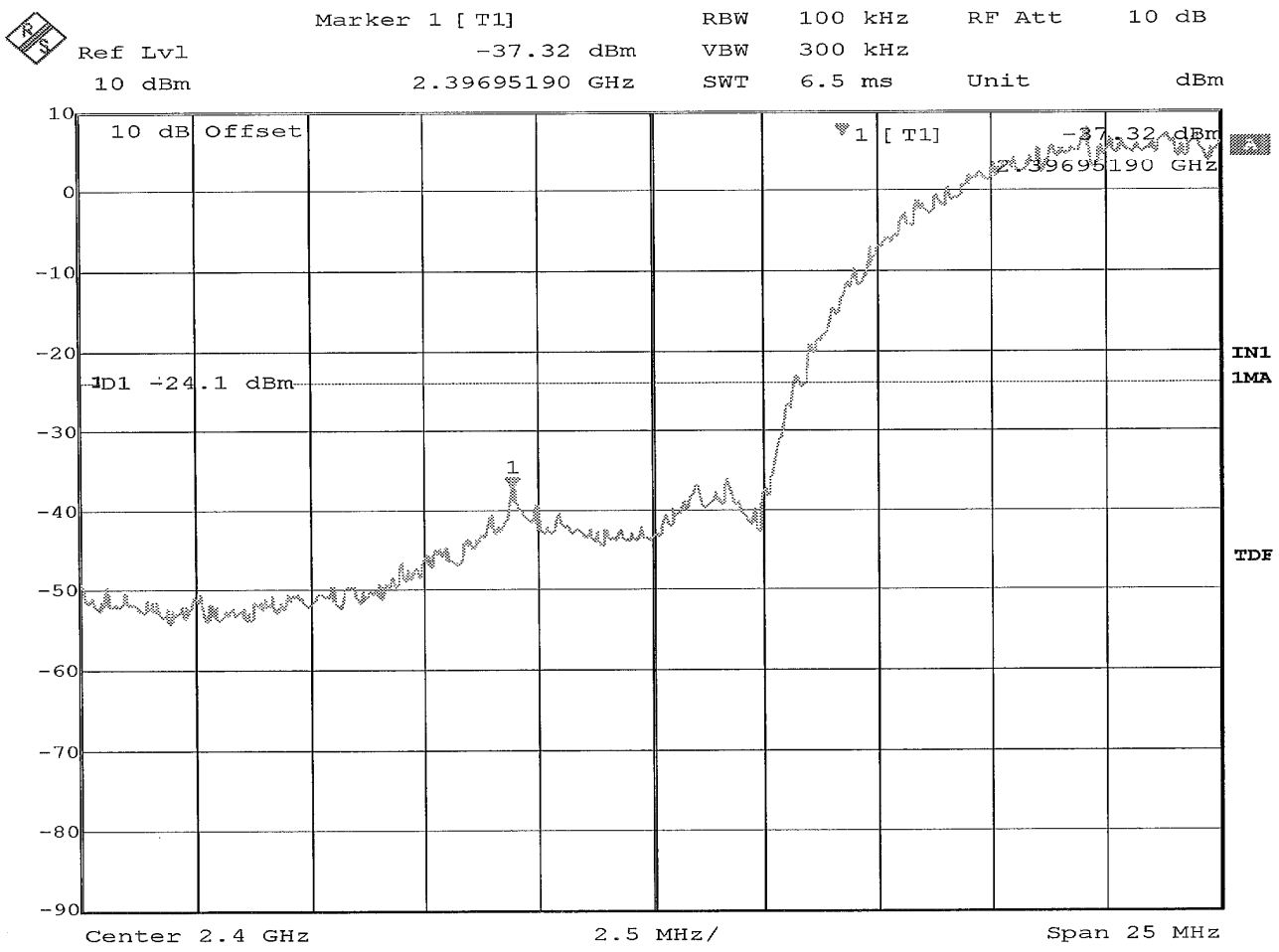
Band Edge Low

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -59.04 dBm Limit: -27.92 dBm



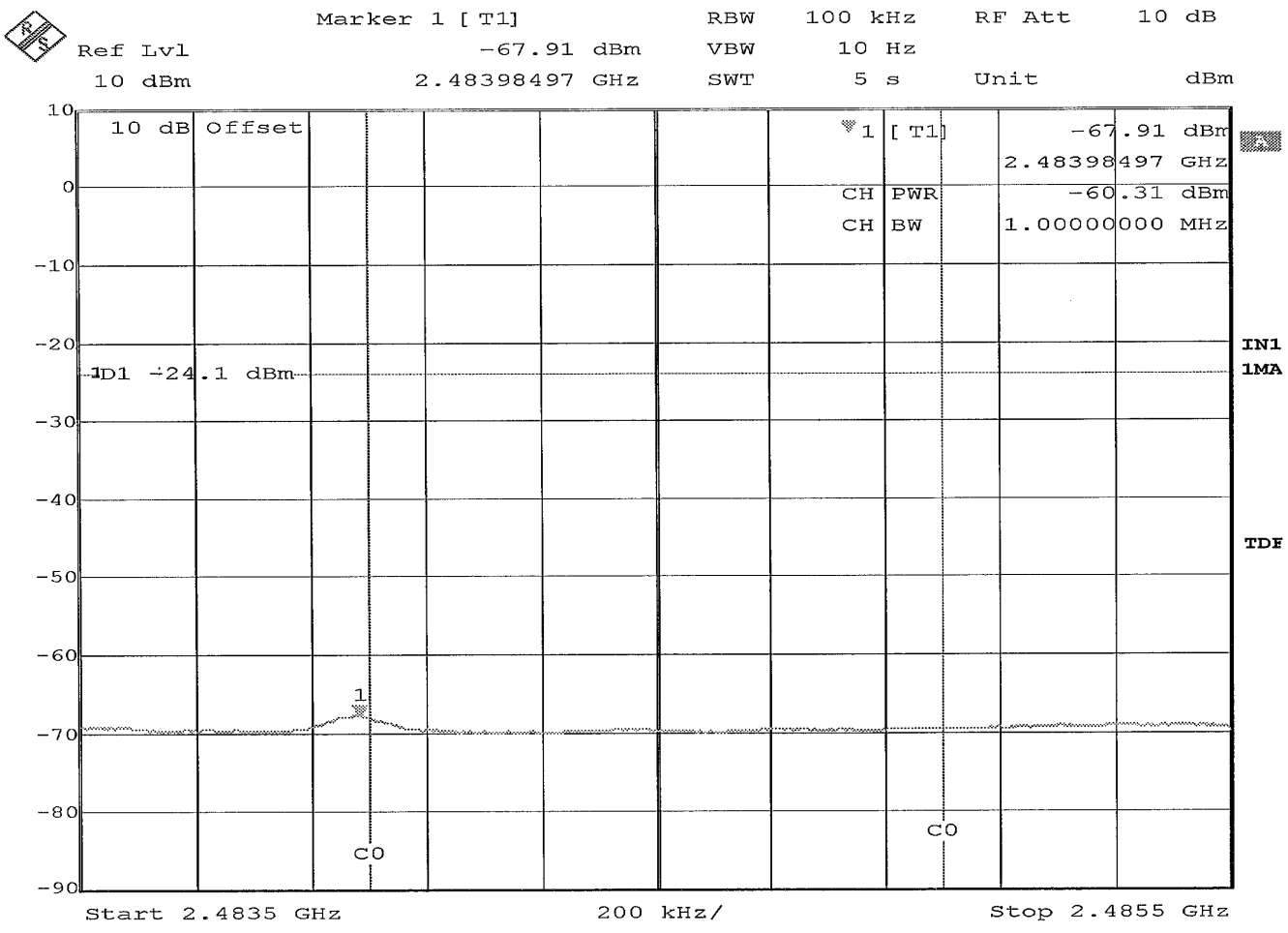
Band Edge High

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -37.32 dBm Limit: -24.10 dBm



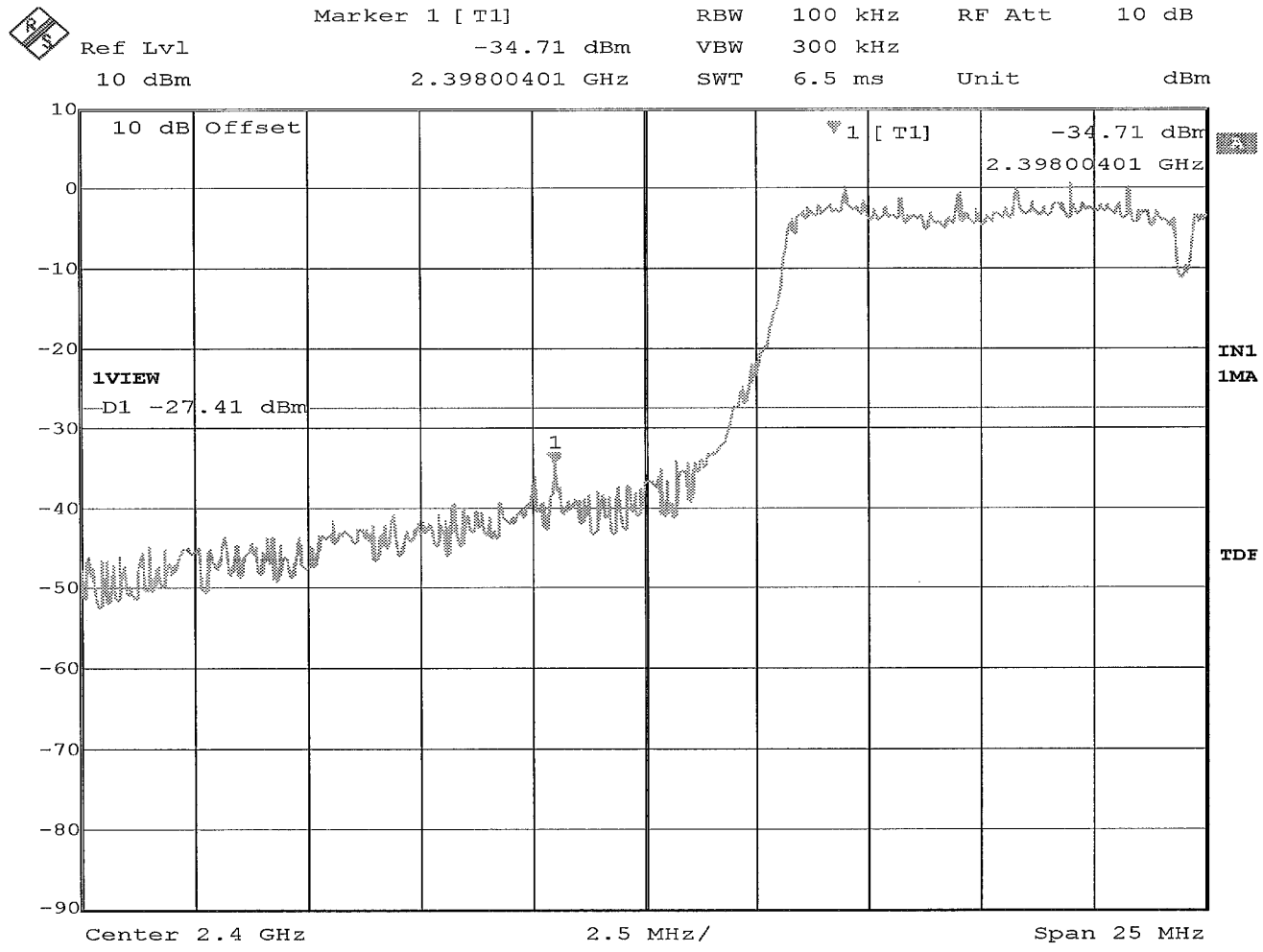
Band Edge Low

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -60.31 dBm Limit: -24.10 dBm



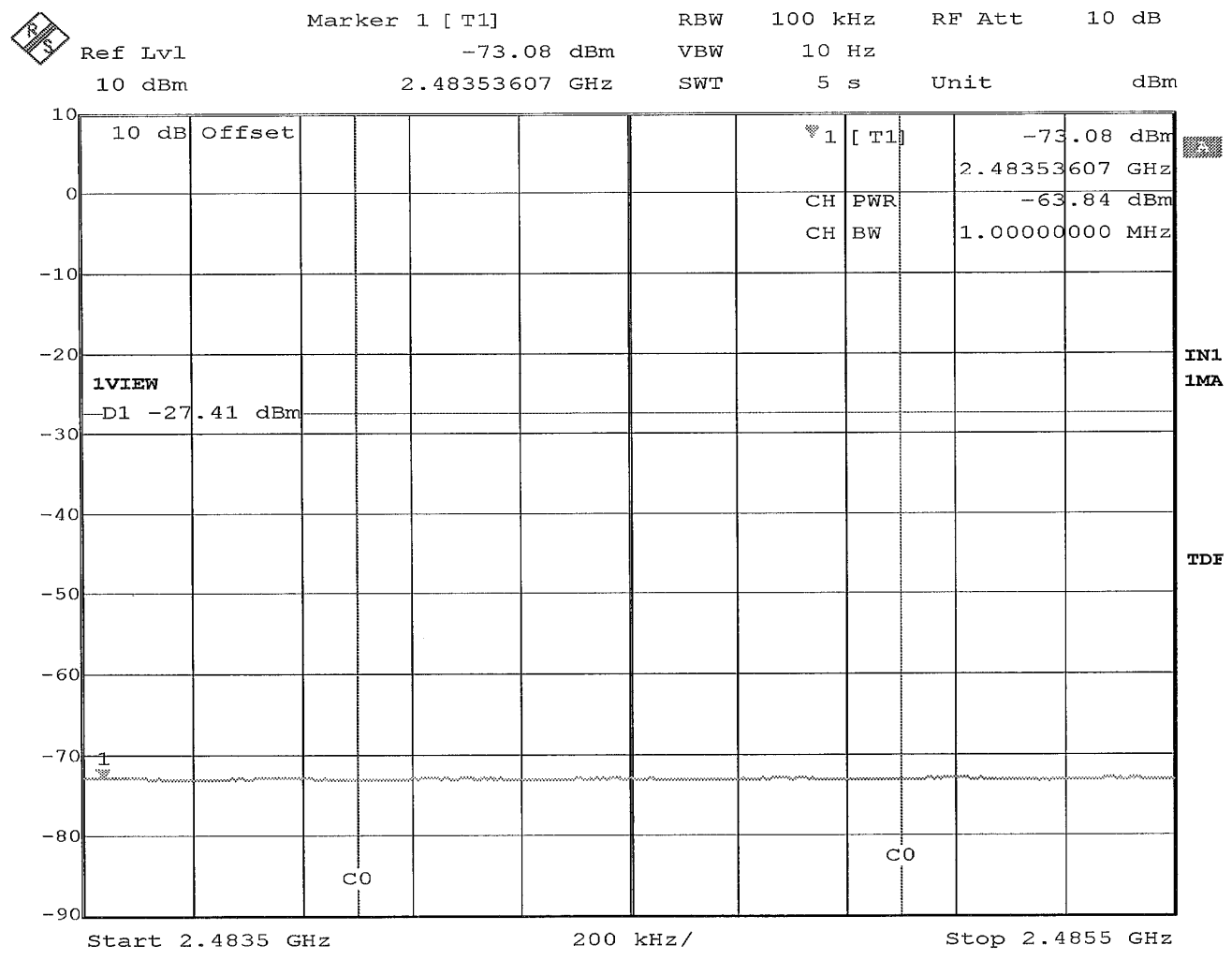
Band Edge High

EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -34.71 dBm Limit: -27.41 dBm



Band Edge Low

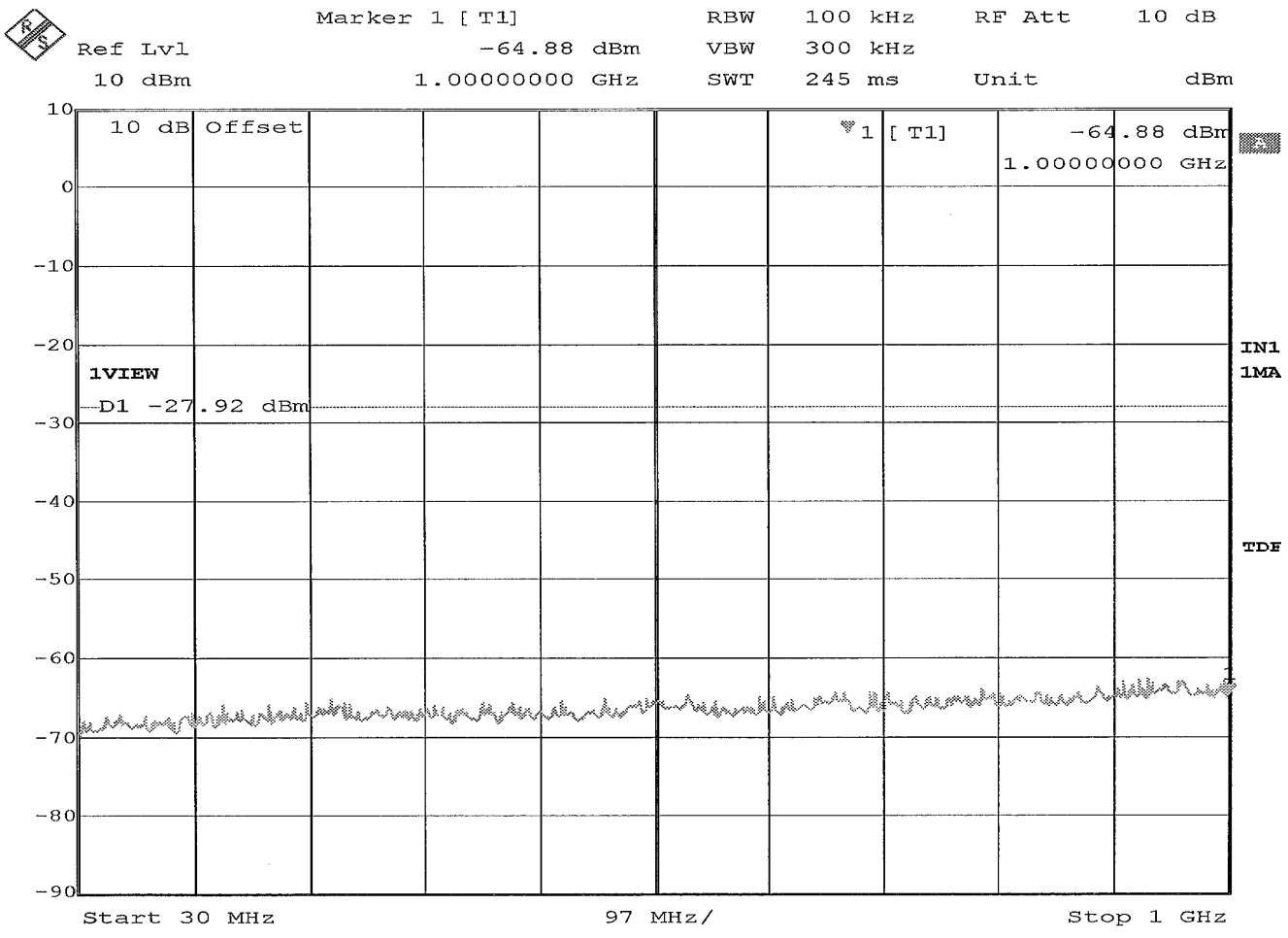
EMISSIONS TEST DATA SHEET	
Method:	**Band Edge**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Peak Detector, Reading: -63.84 dBm Limit: -27.41 dBm



Band Edge High

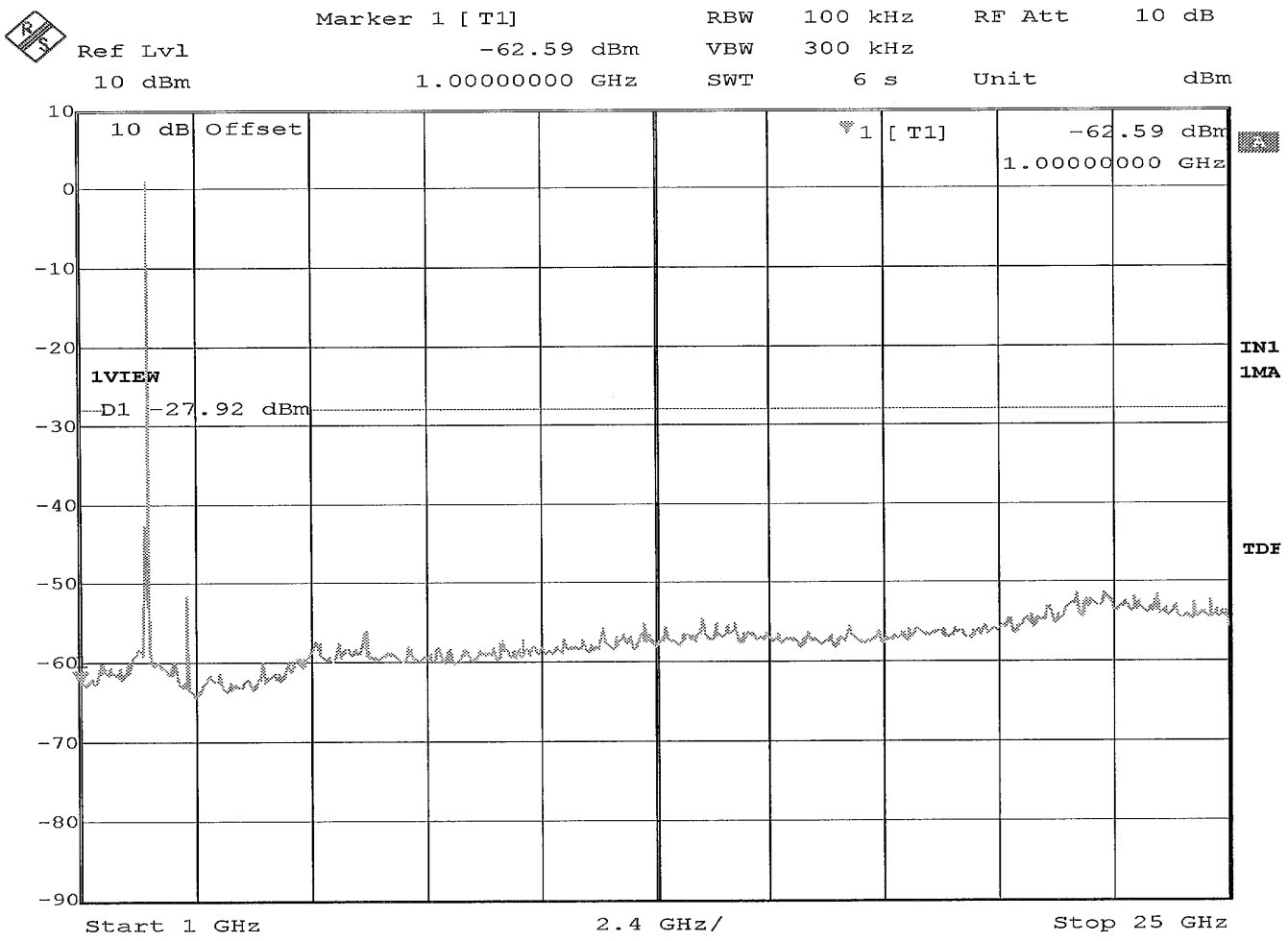
FCC Part 15, Subpart C, Section 15.247(d)
Antenna Port Conducted Emissions
Out of Band Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



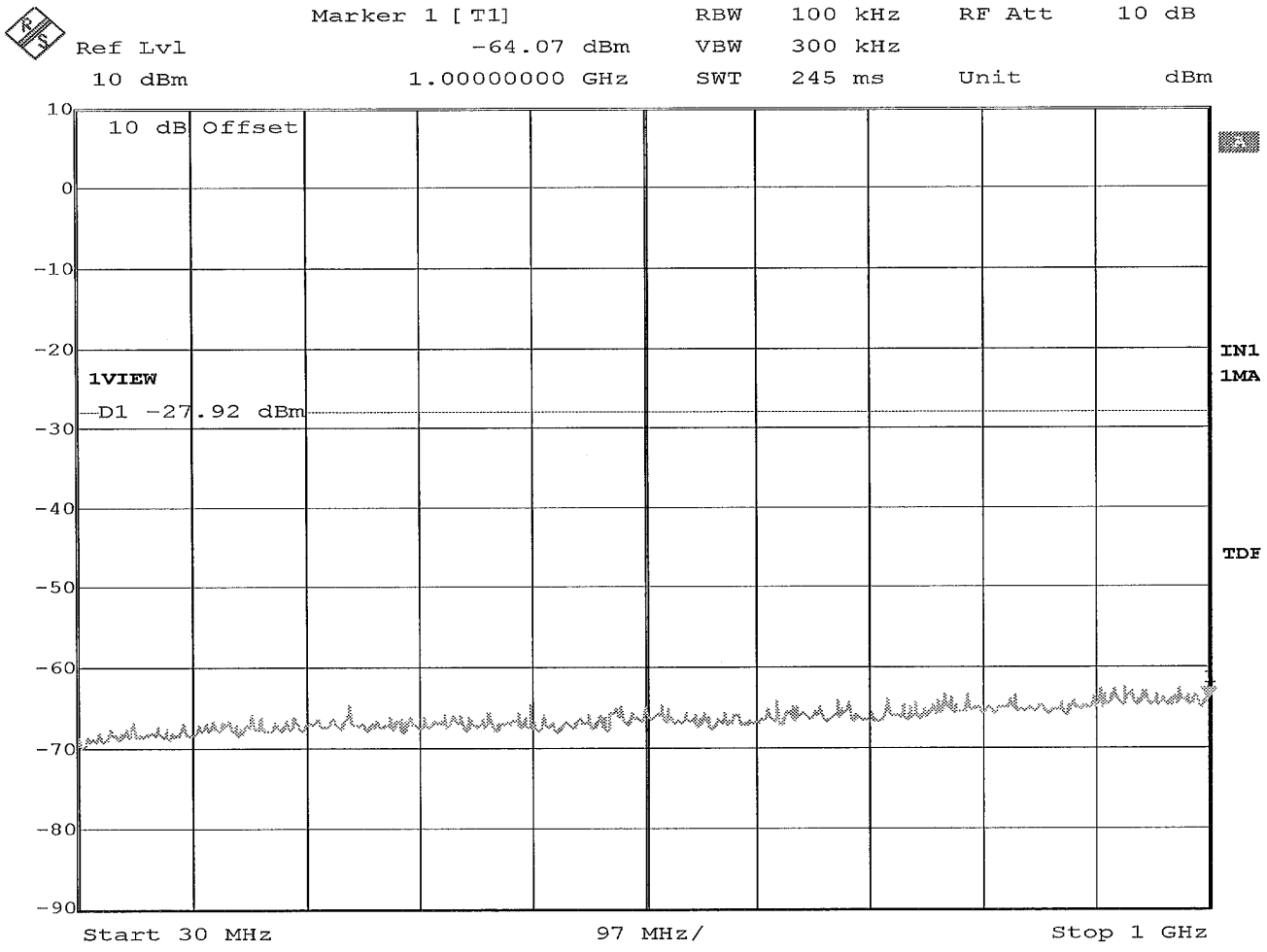
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



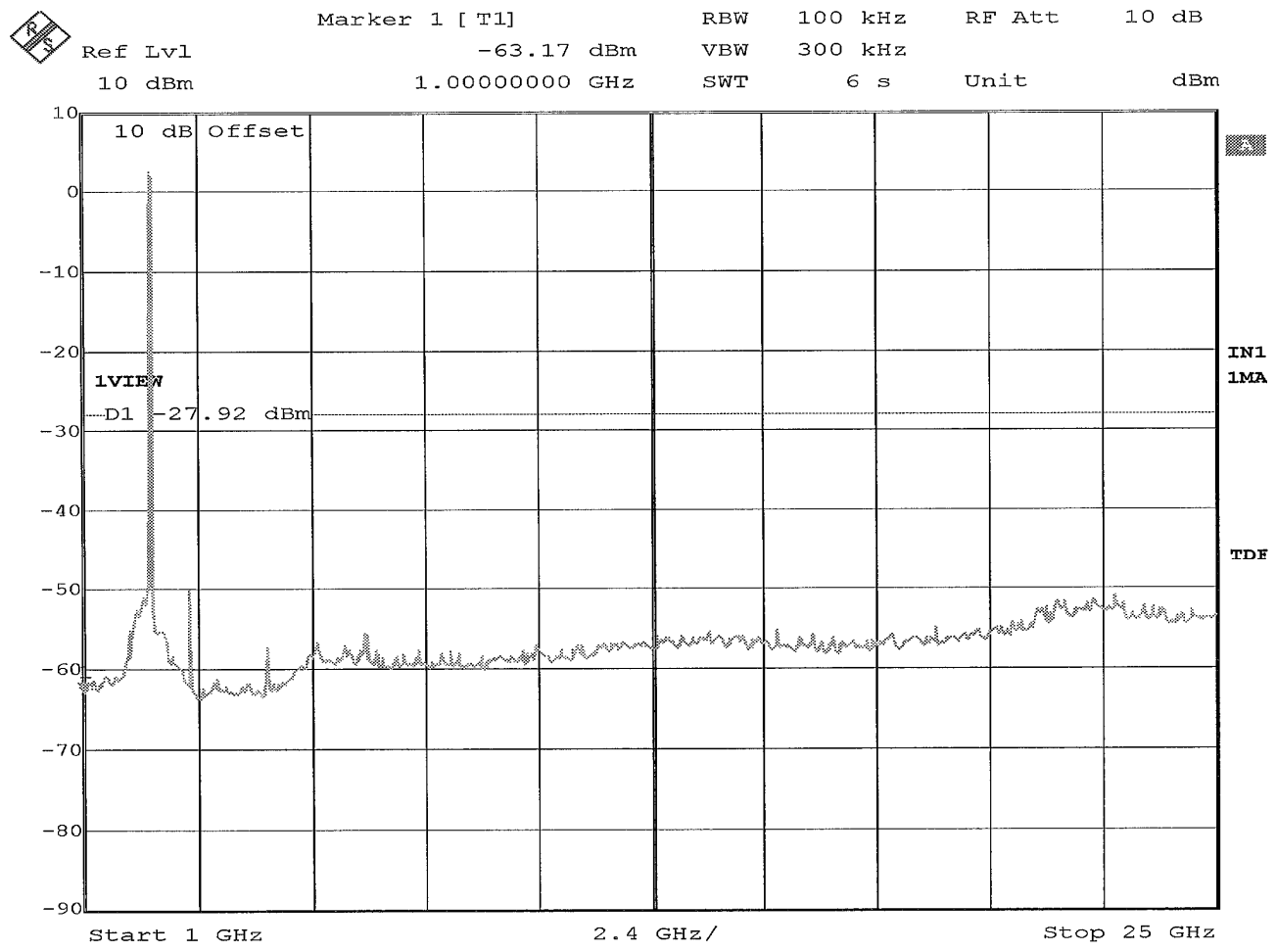
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



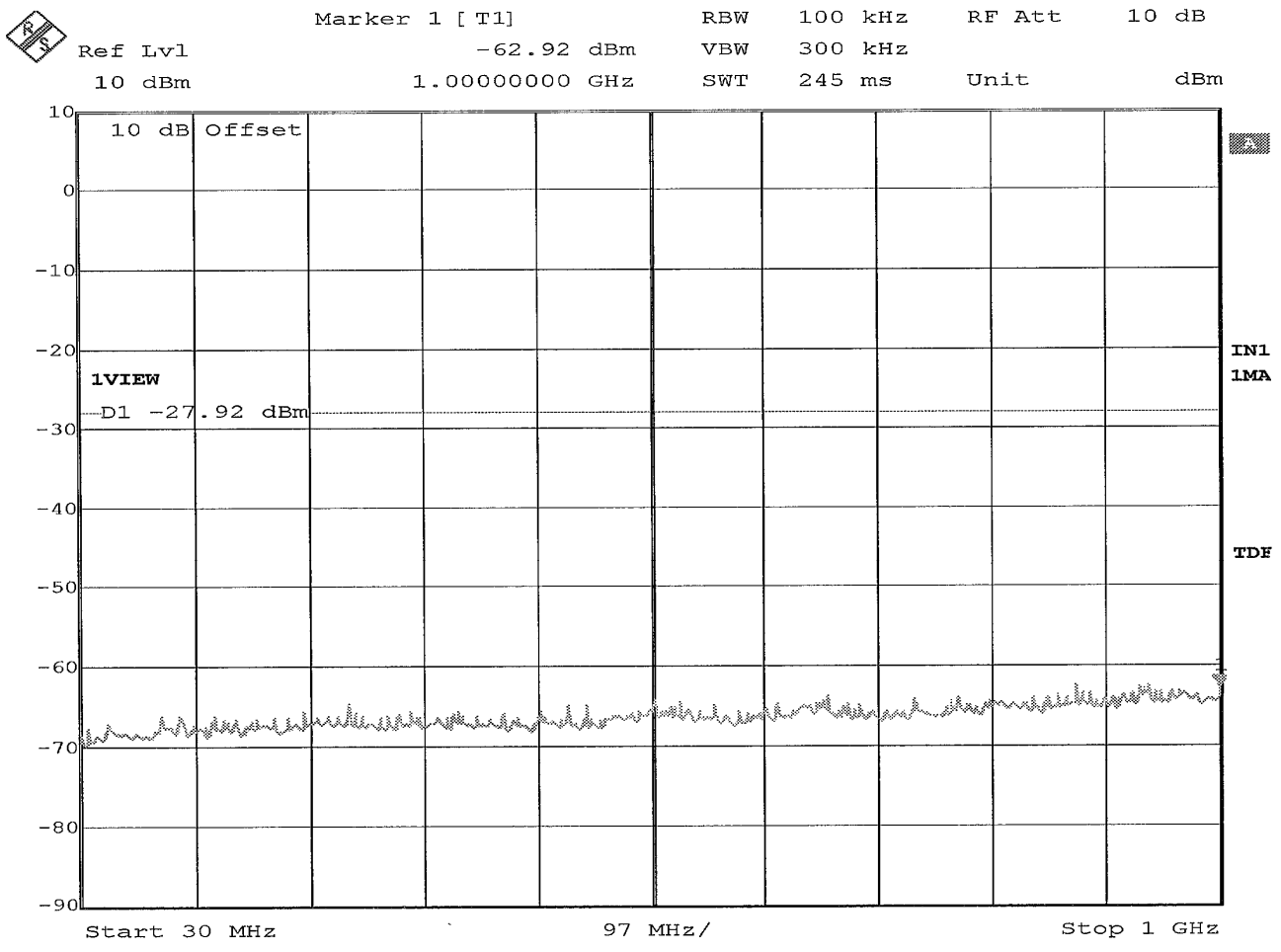
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



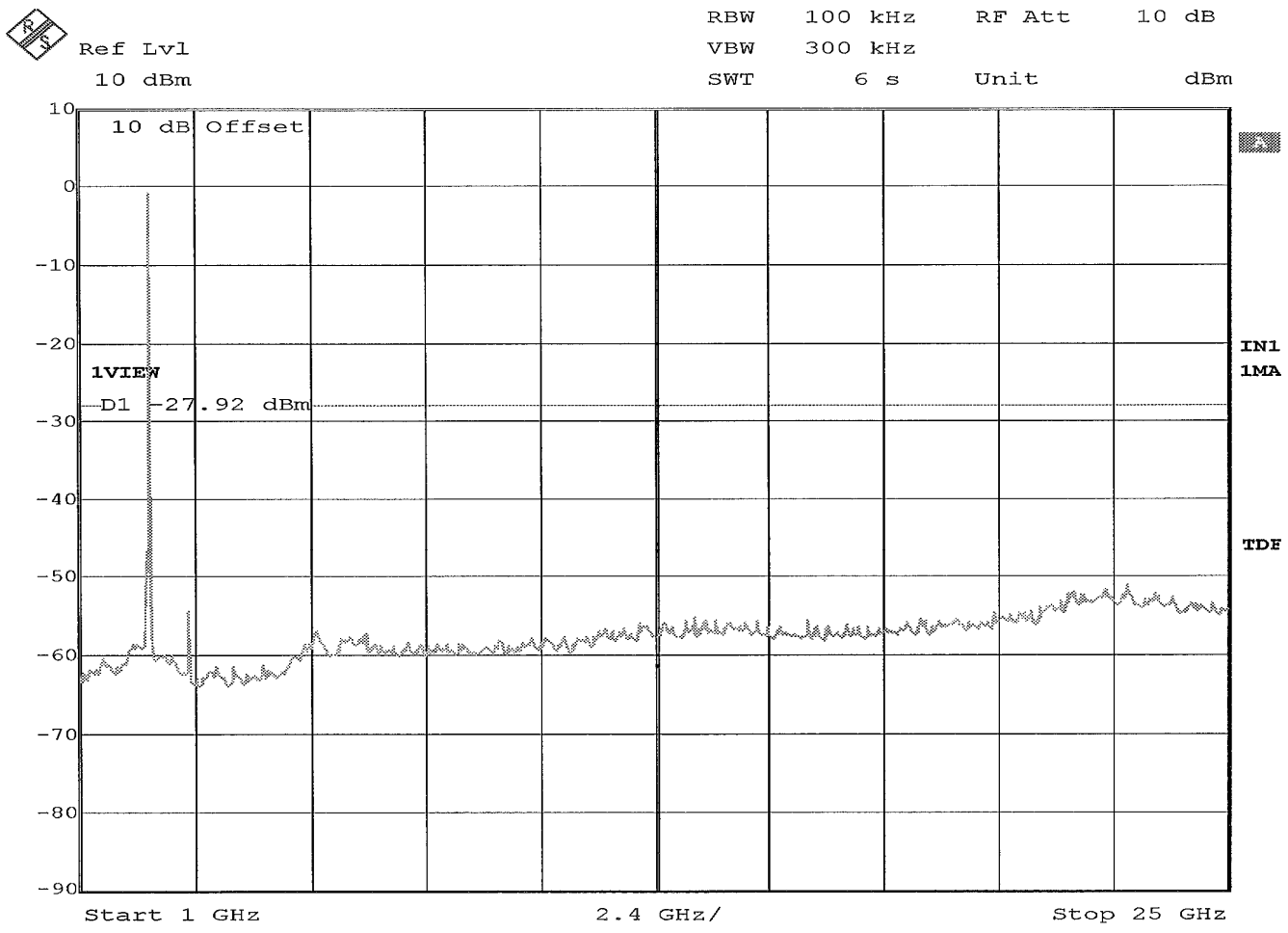
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



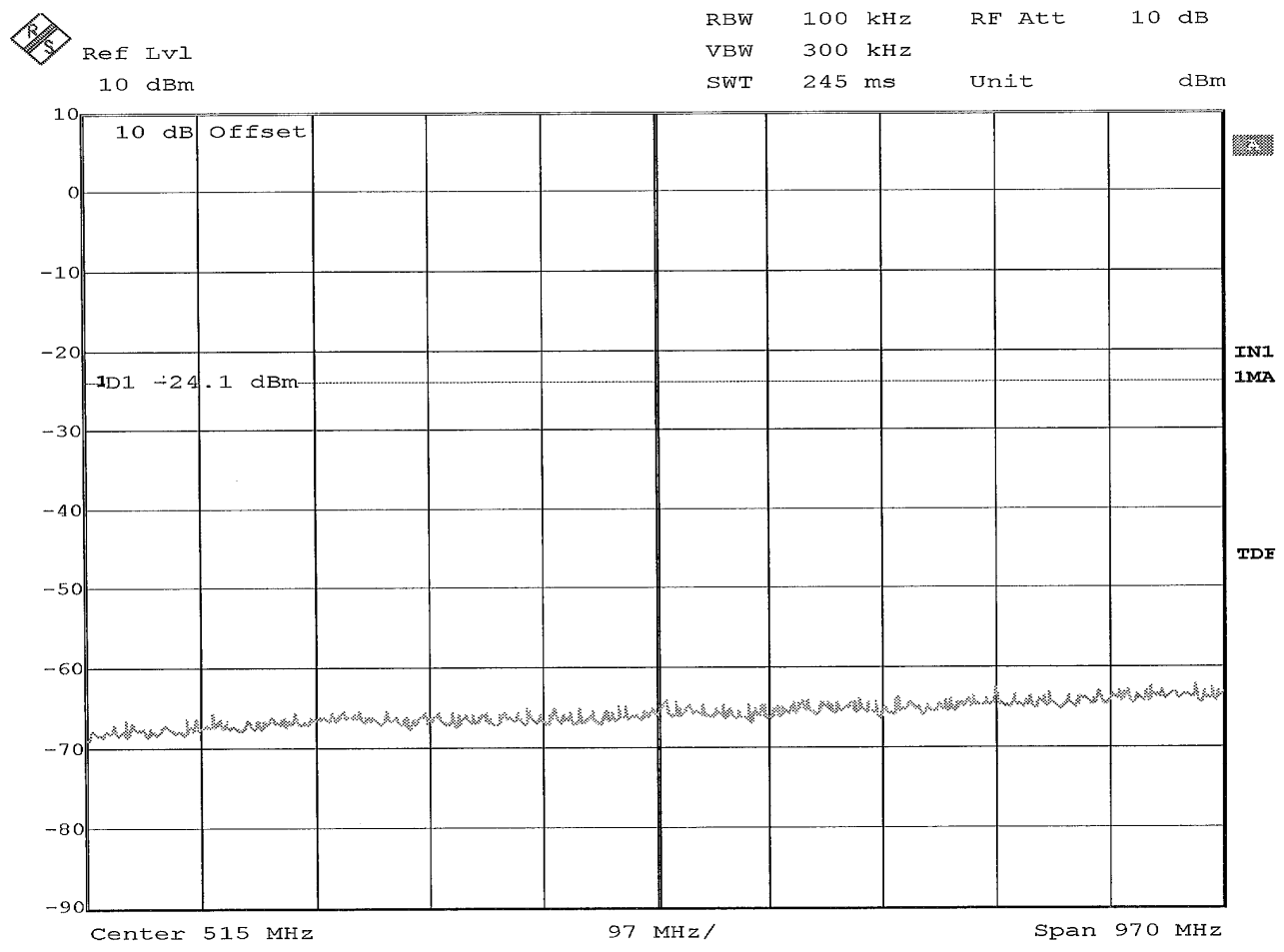
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.92 dBm



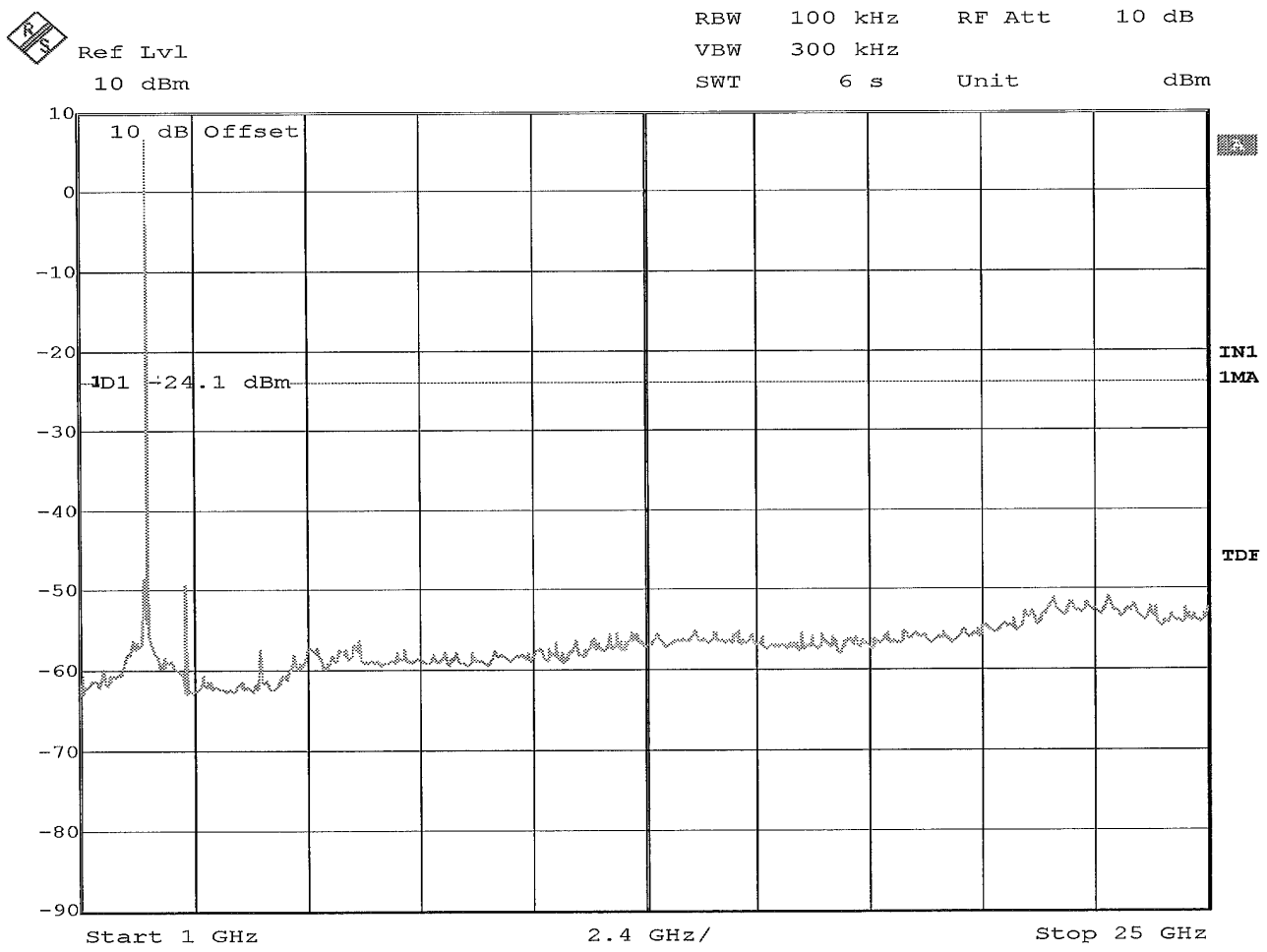
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



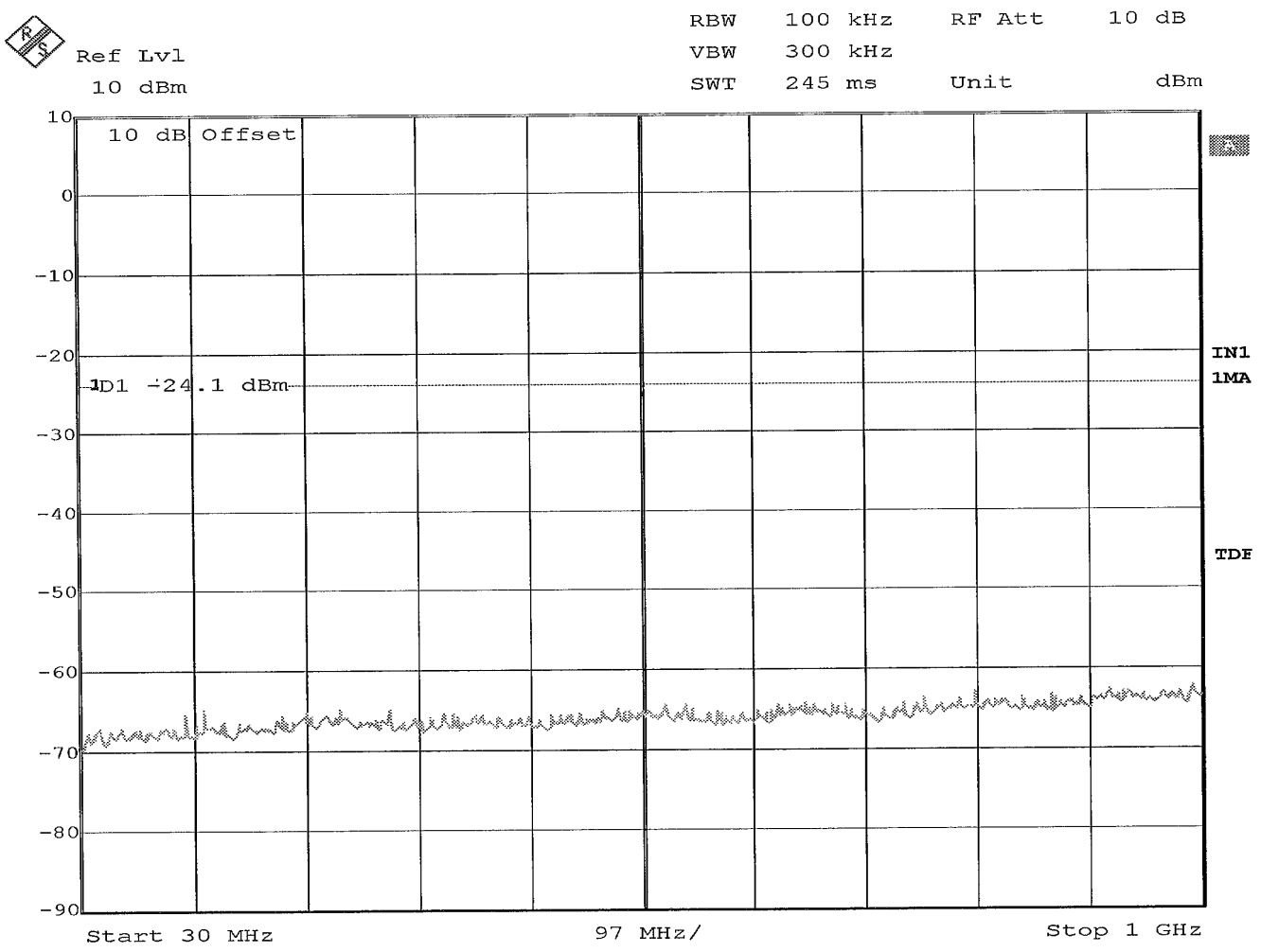
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



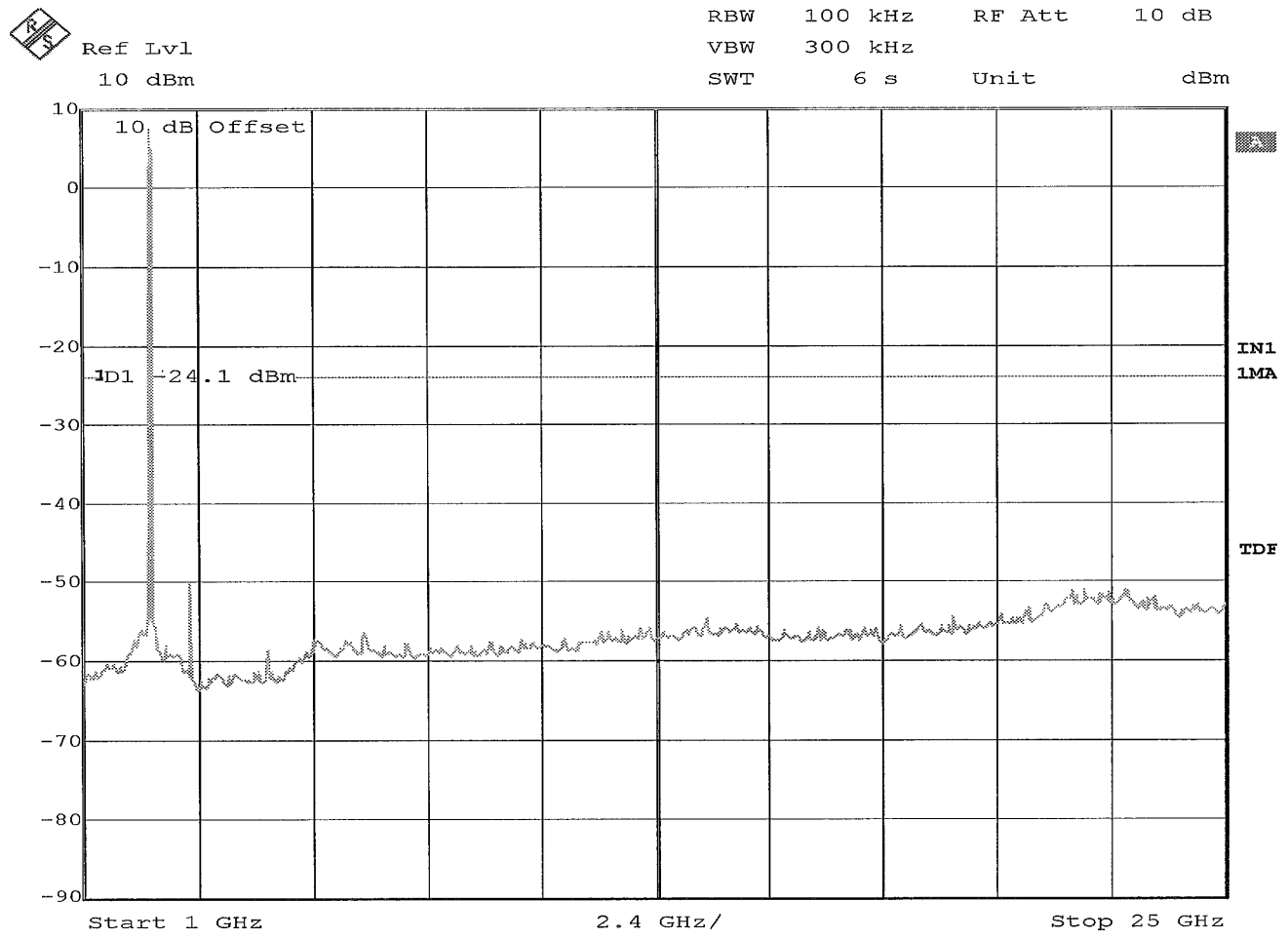
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



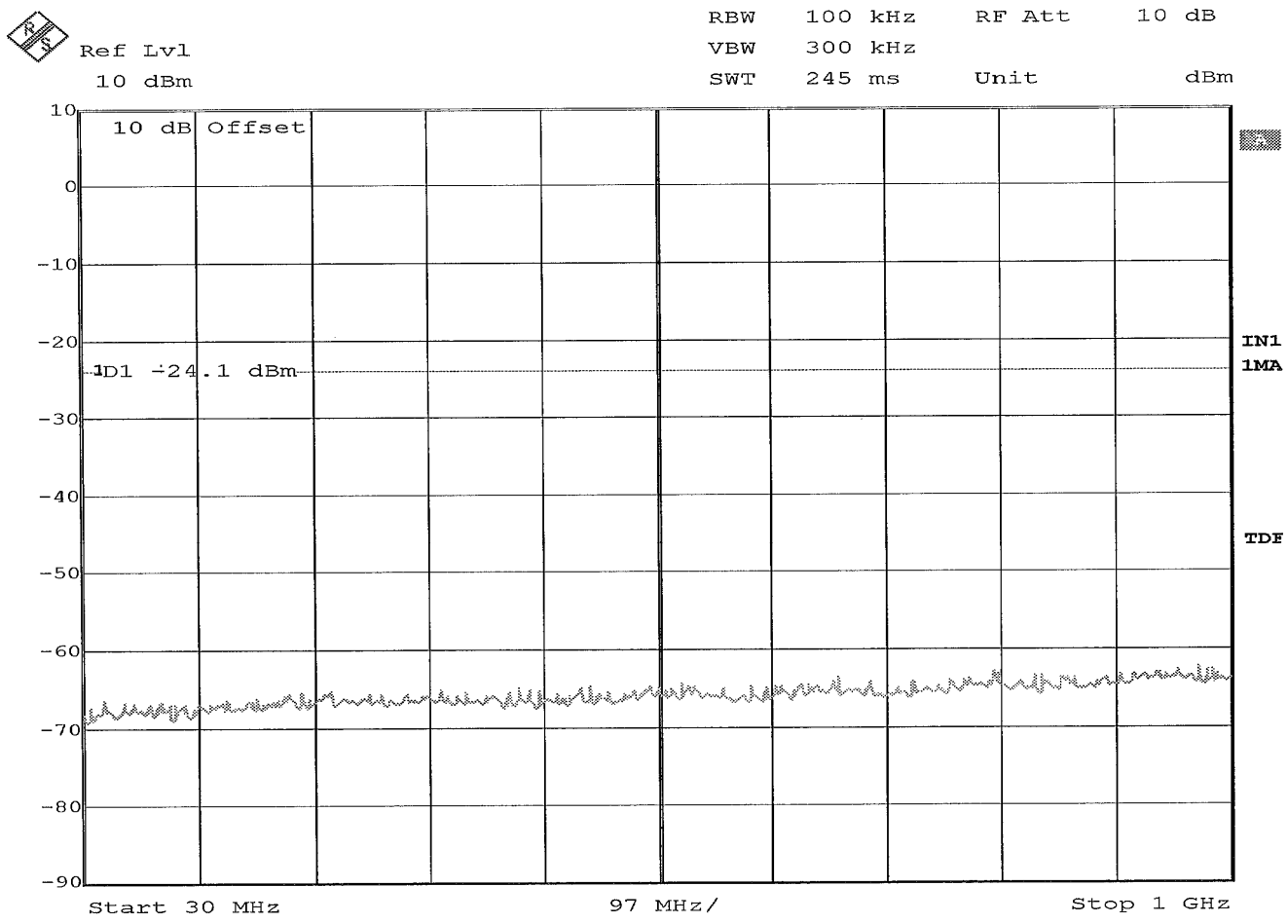
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



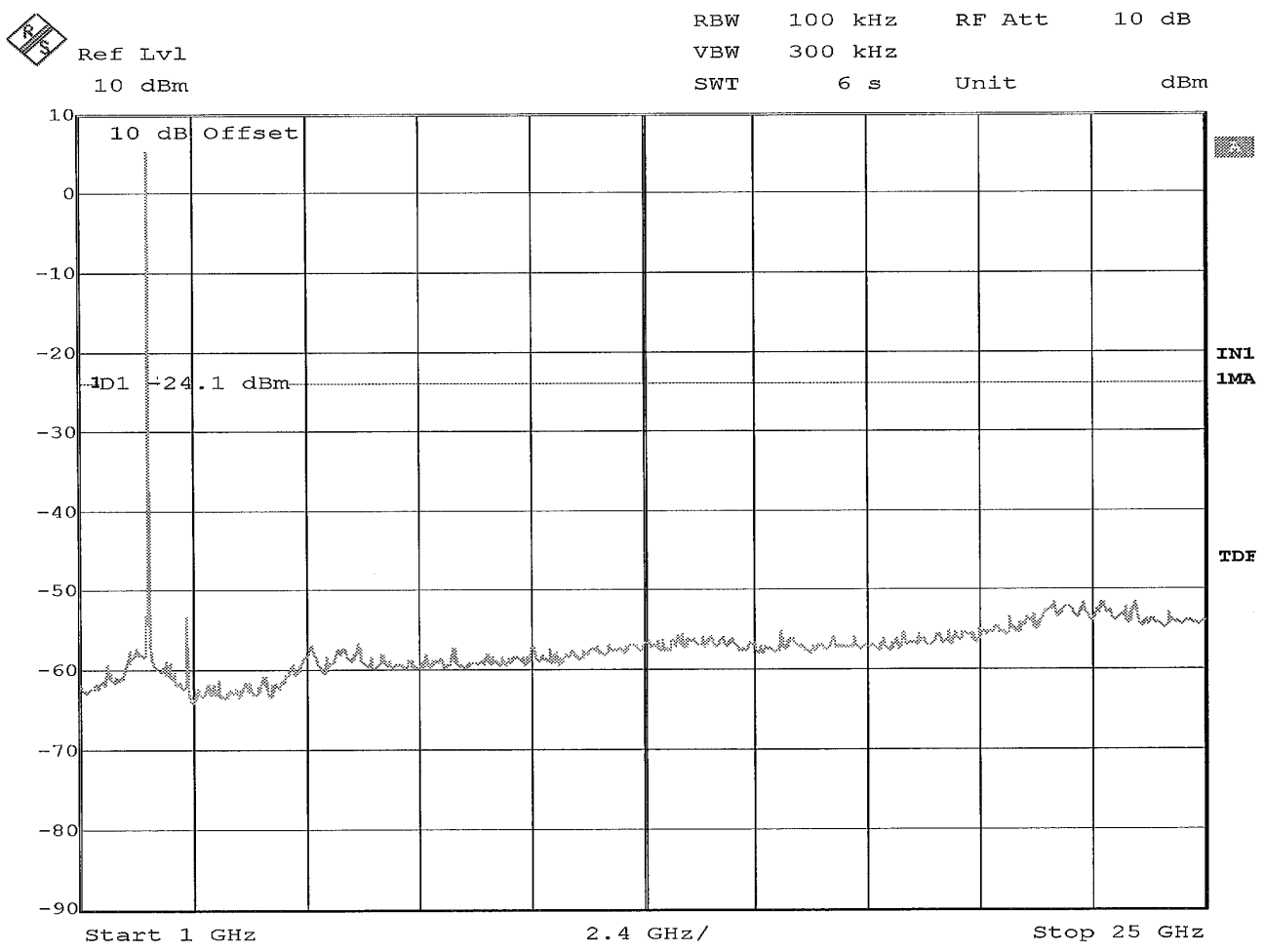
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



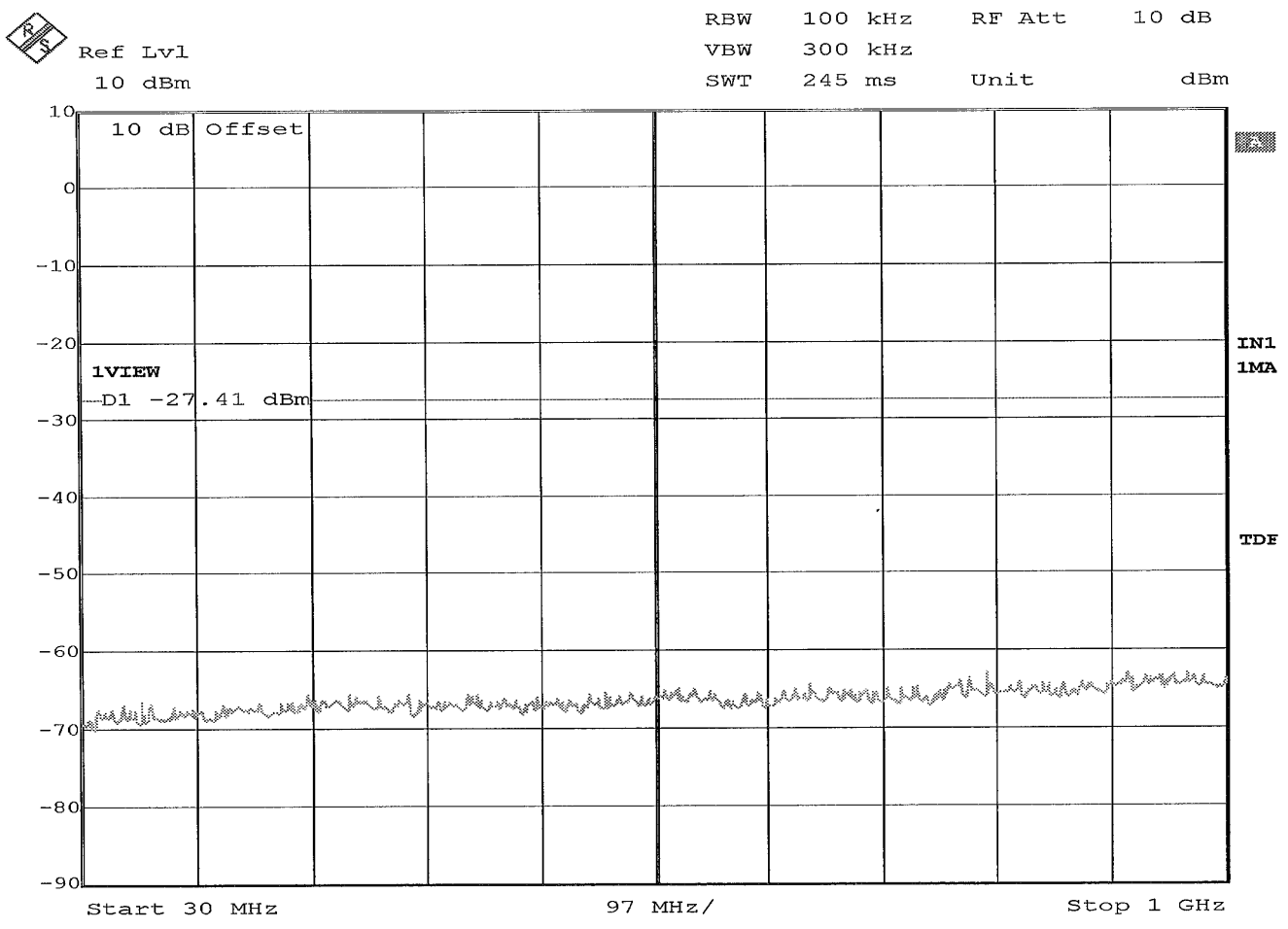
30MHz to 1GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -24.10 dBm



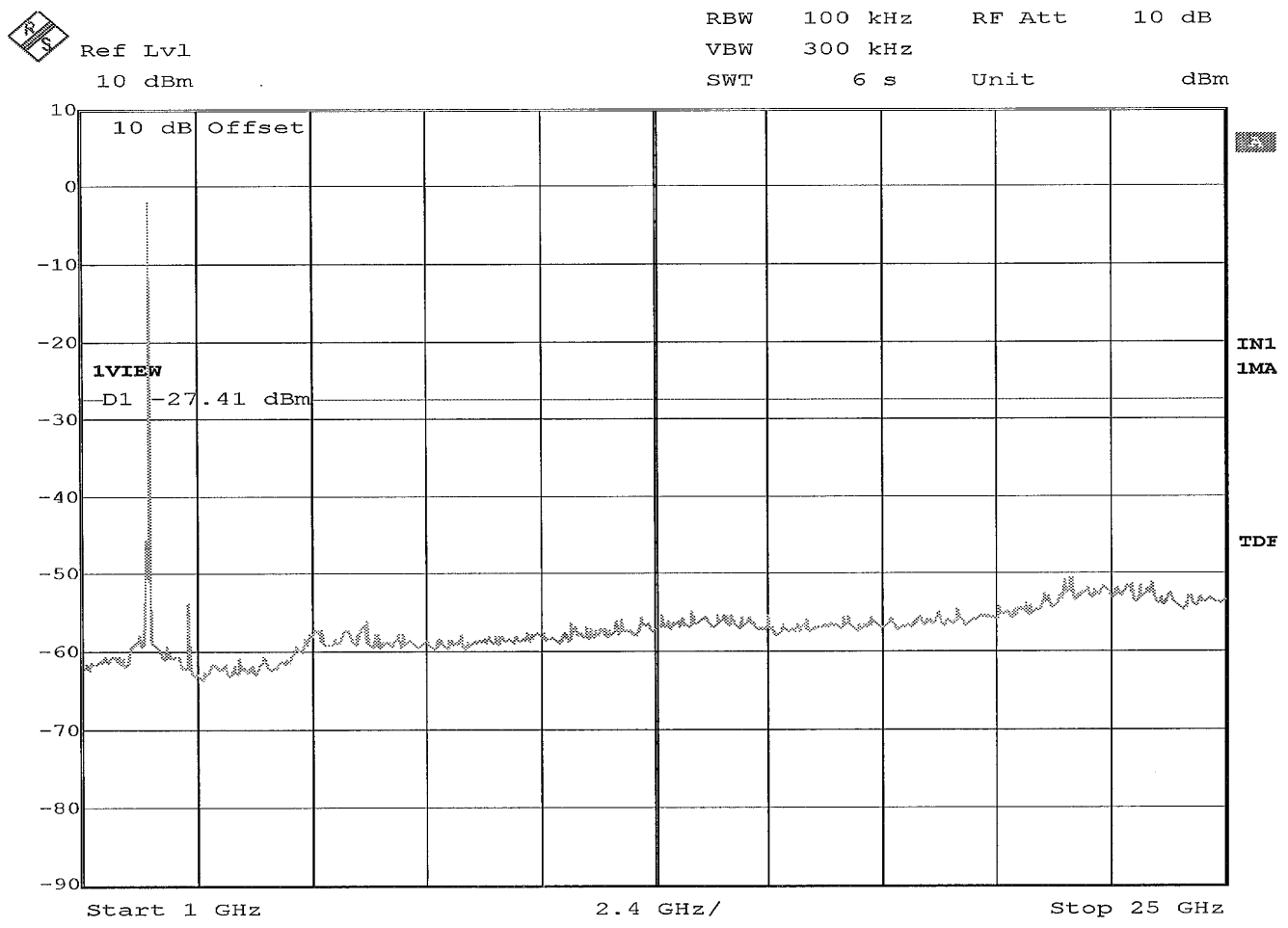
1GHz to 25GHz

EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.41 dBm



30MHz to 1GHz

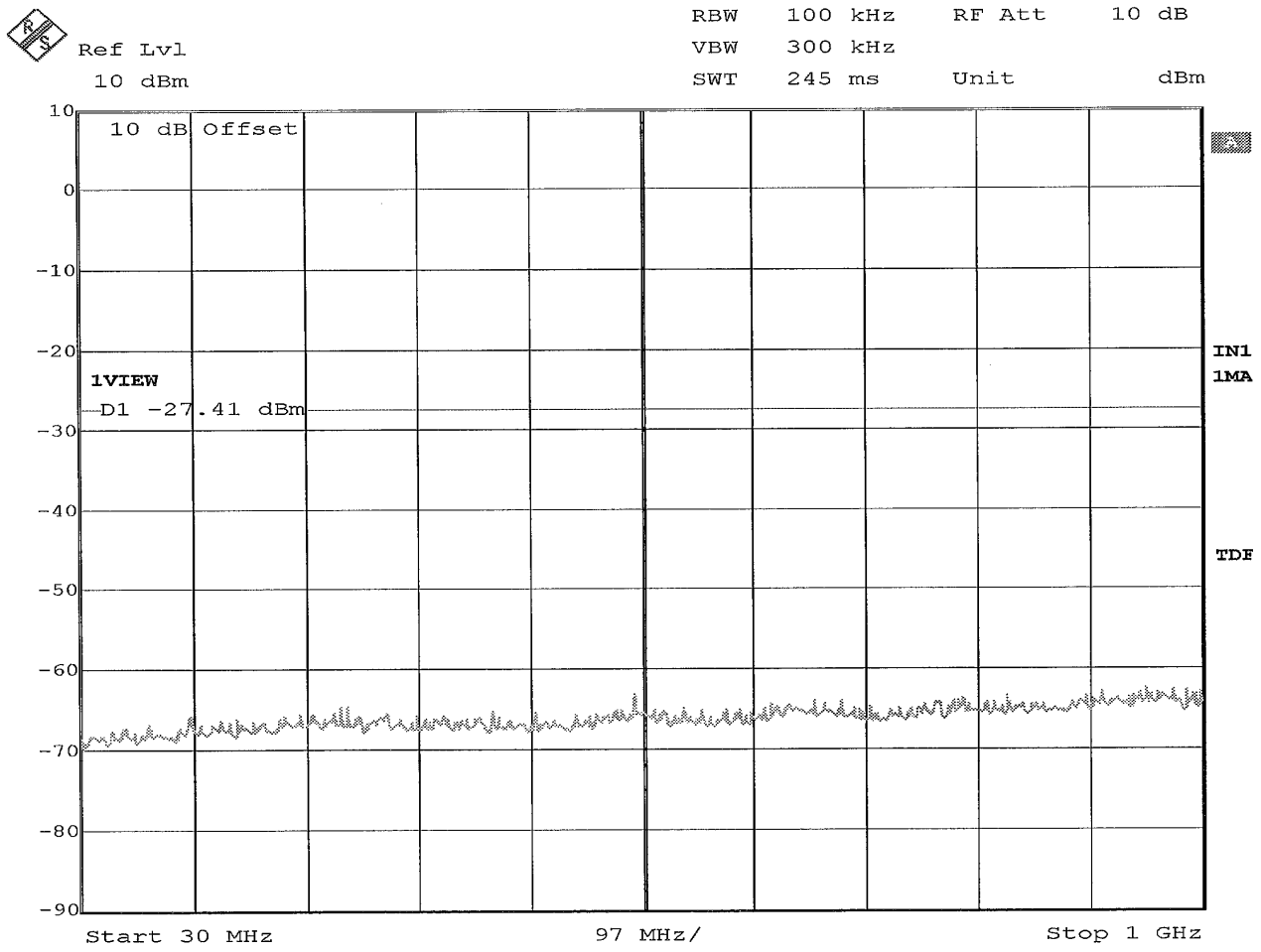
EMISSIONS TEST DATA SHEET	
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.41 dBm



1GHz to 25GHz

EMISSIONS TEST DATA SHEET

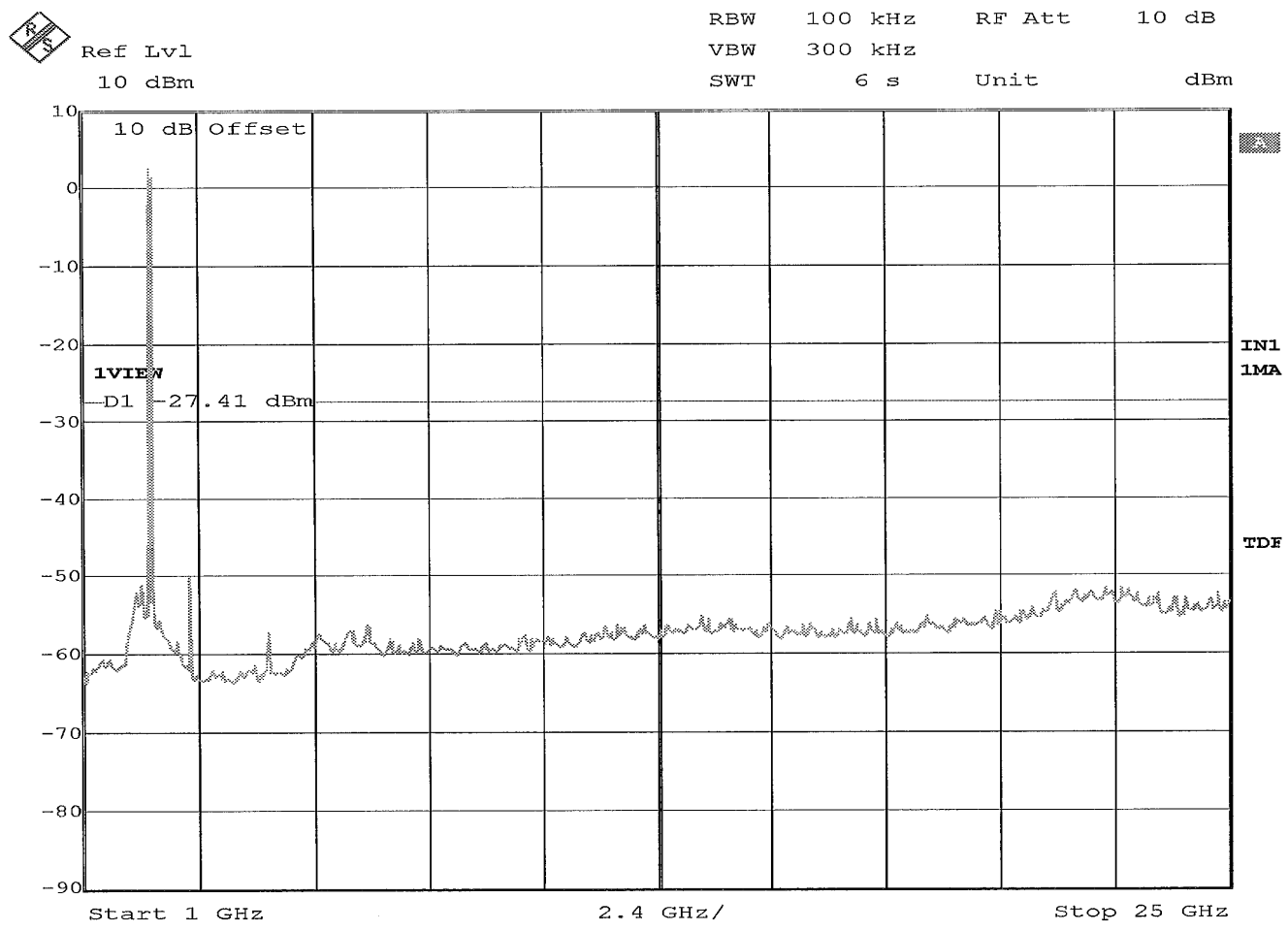
Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.41 dBm



30MHz to 1GHz

EMISSIONS TEST DATA SHEET

Method:	**Conducted Out of Band**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit:-27.41 dBm

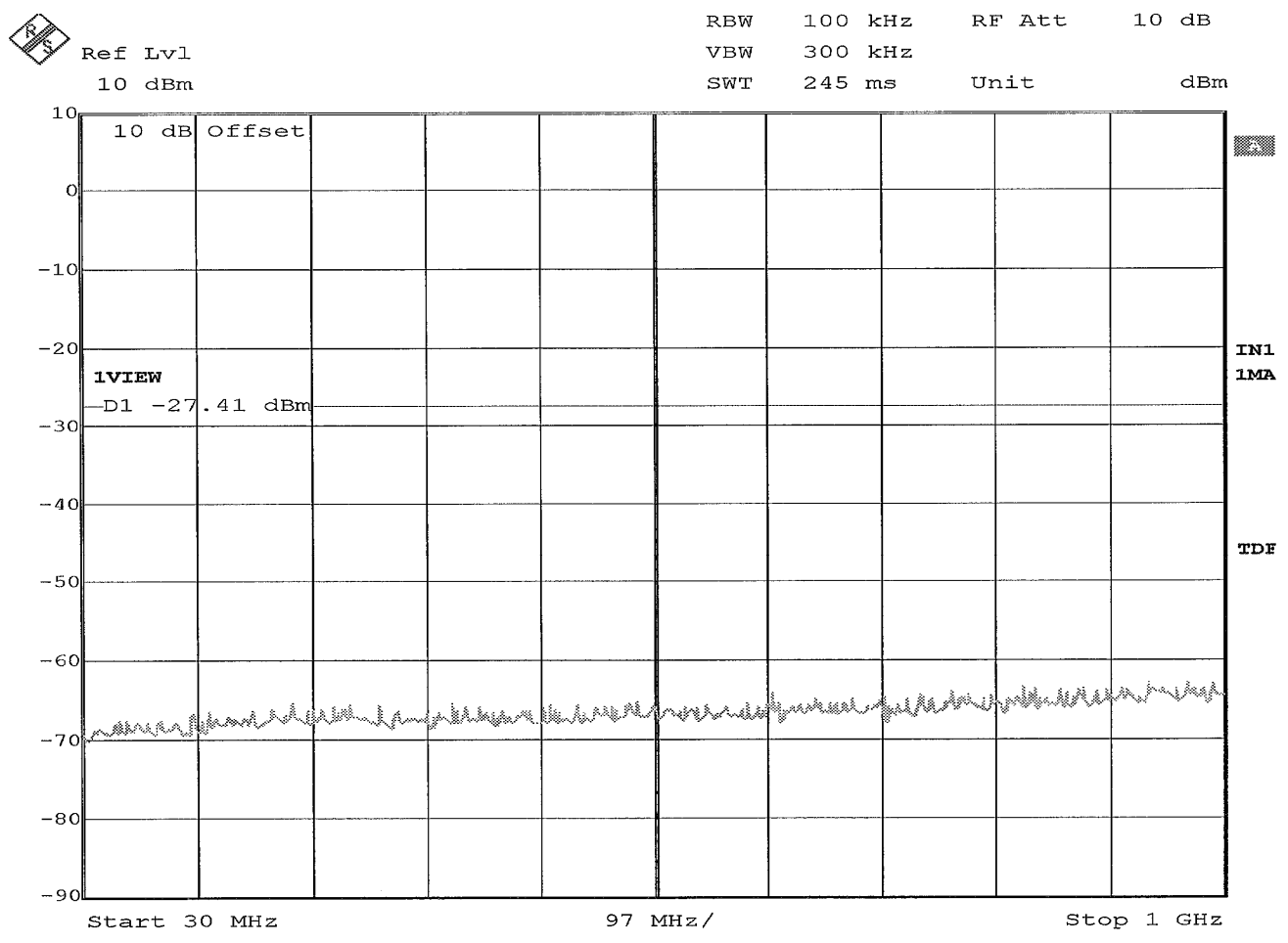


1GHz to 25GHz

EMISSIONS TEST DATA SHEET

Method:	**Conducted Out of Band**

Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.41 dBm

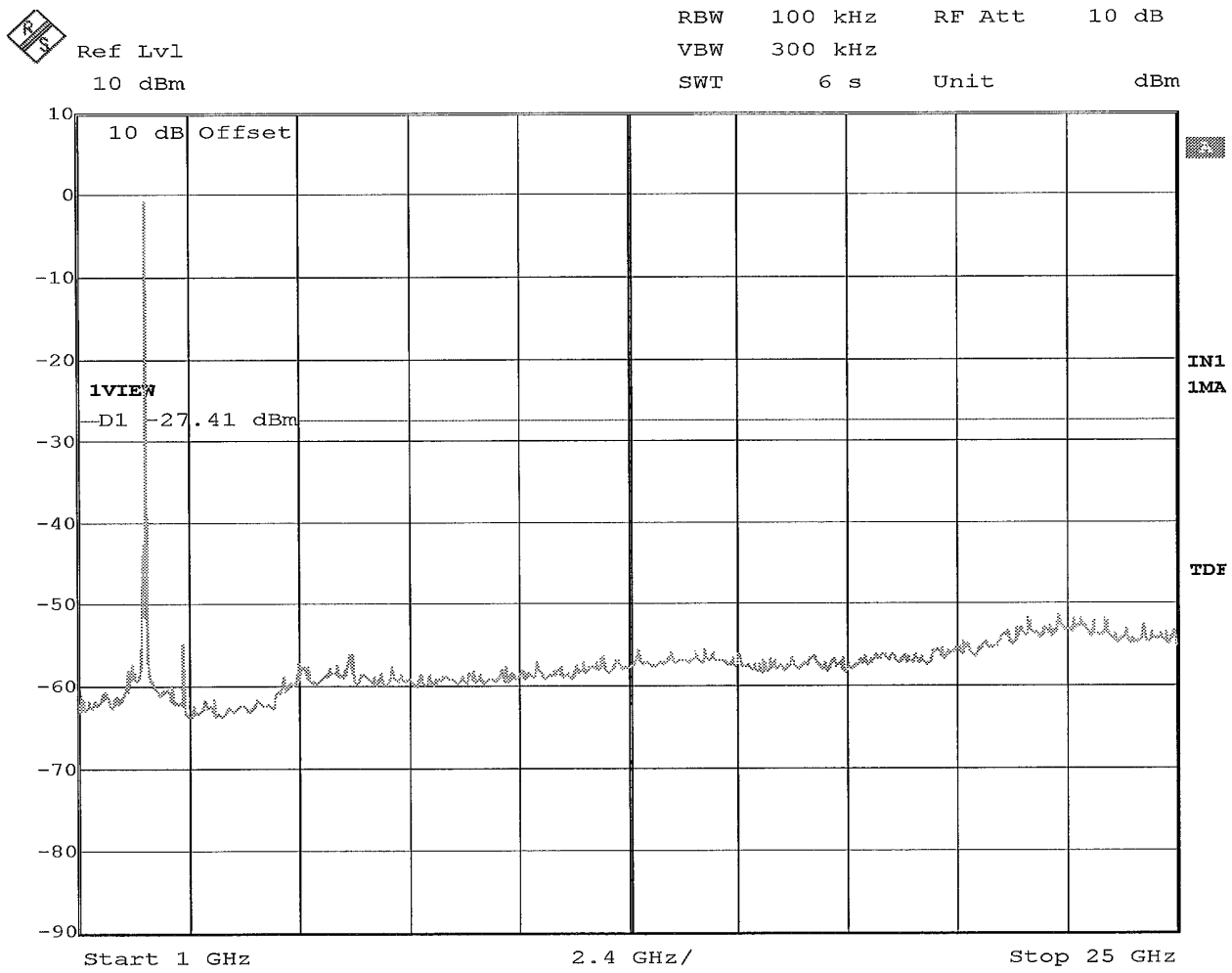


30MHz to 1GHz

EMISSIONS TEST DATA SHEET

Method:	**Conducted Out of Band**

Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (d)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	22.1 °C / 51.0 %
Notes:	Limit: -27.41 dBm



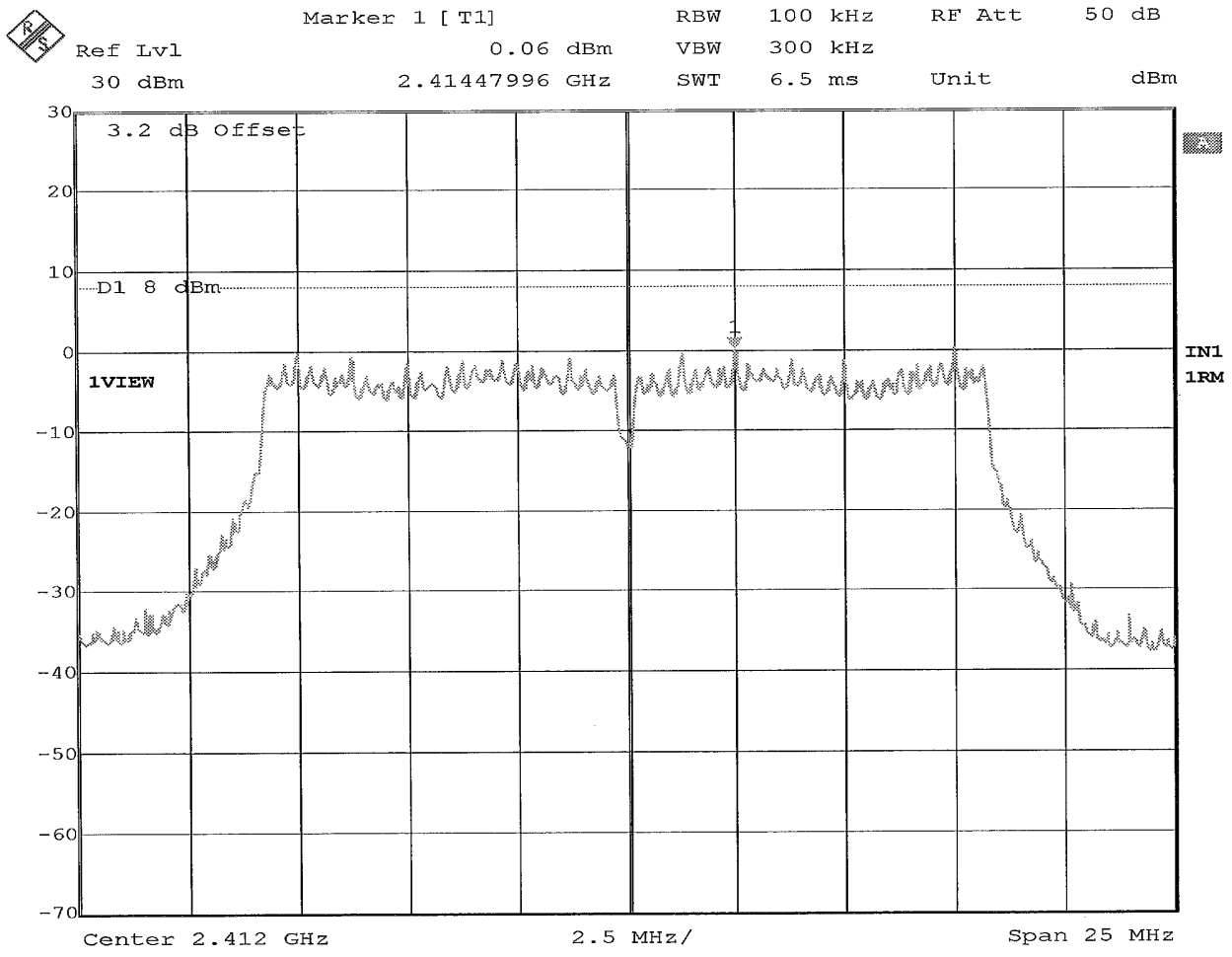
1GHz to 25GHz

Test Photographs
Antenna Port, Power Density

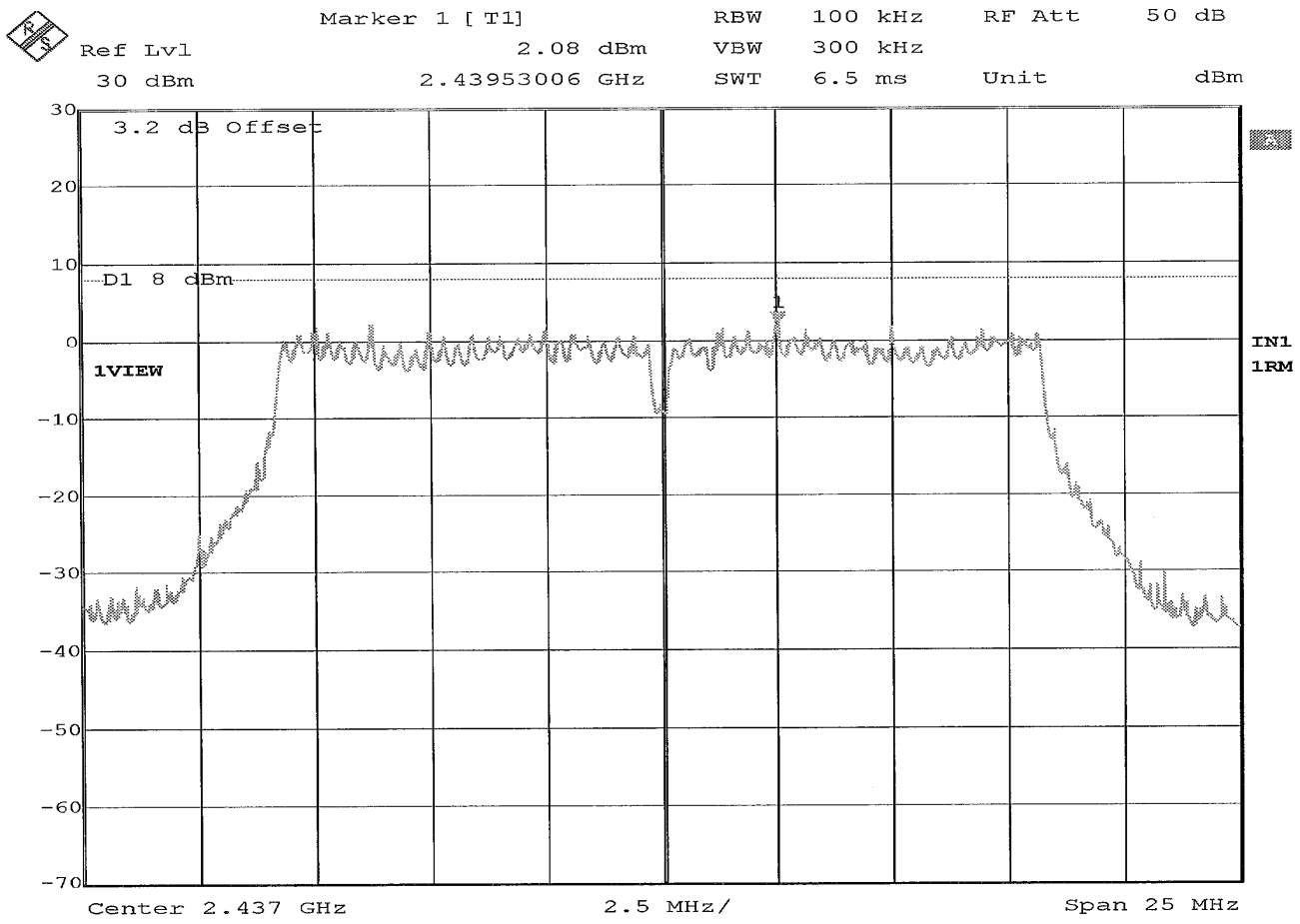
EUT Configuration

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

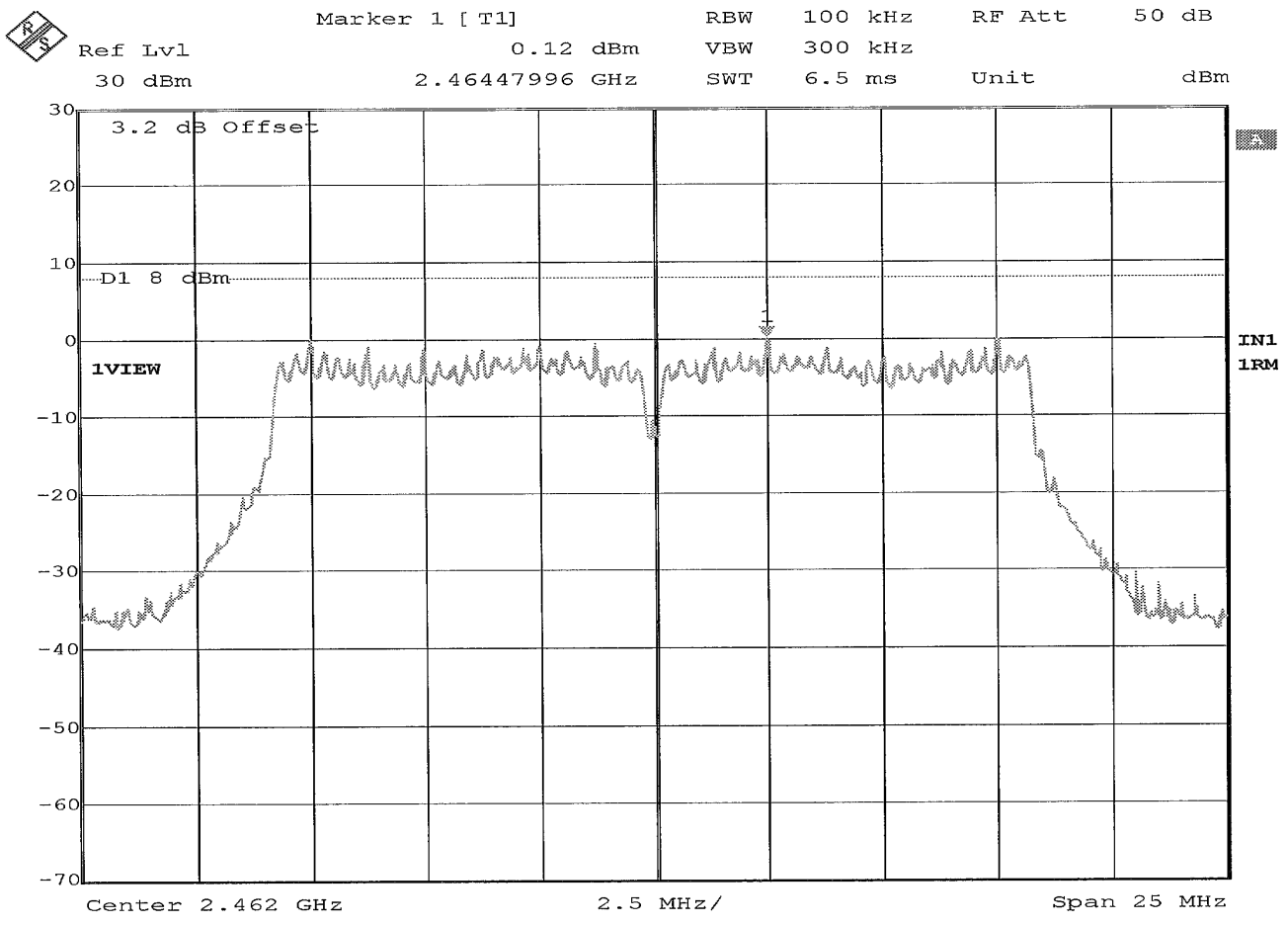
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 0.06 dBm



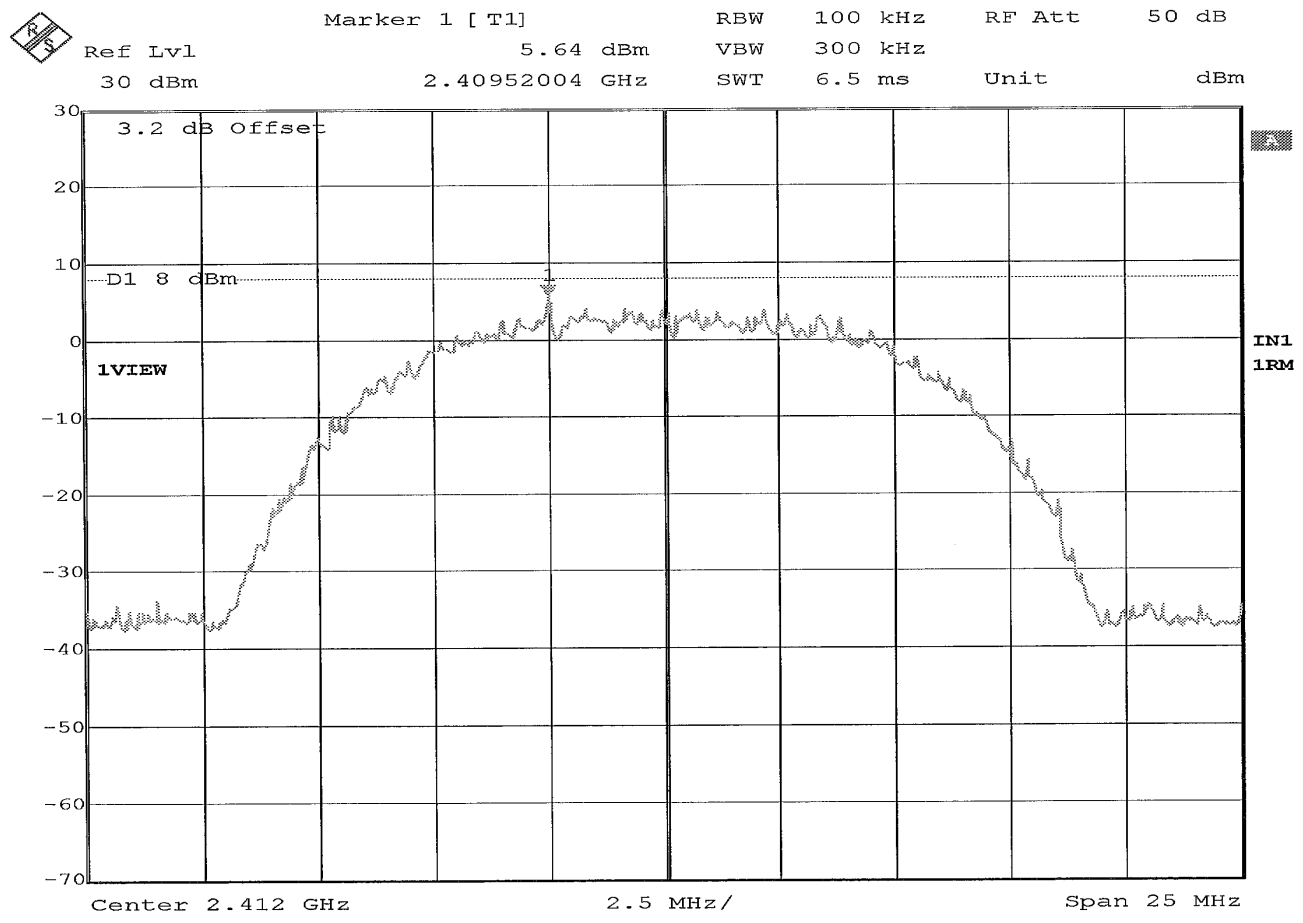
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 2.08 dBm



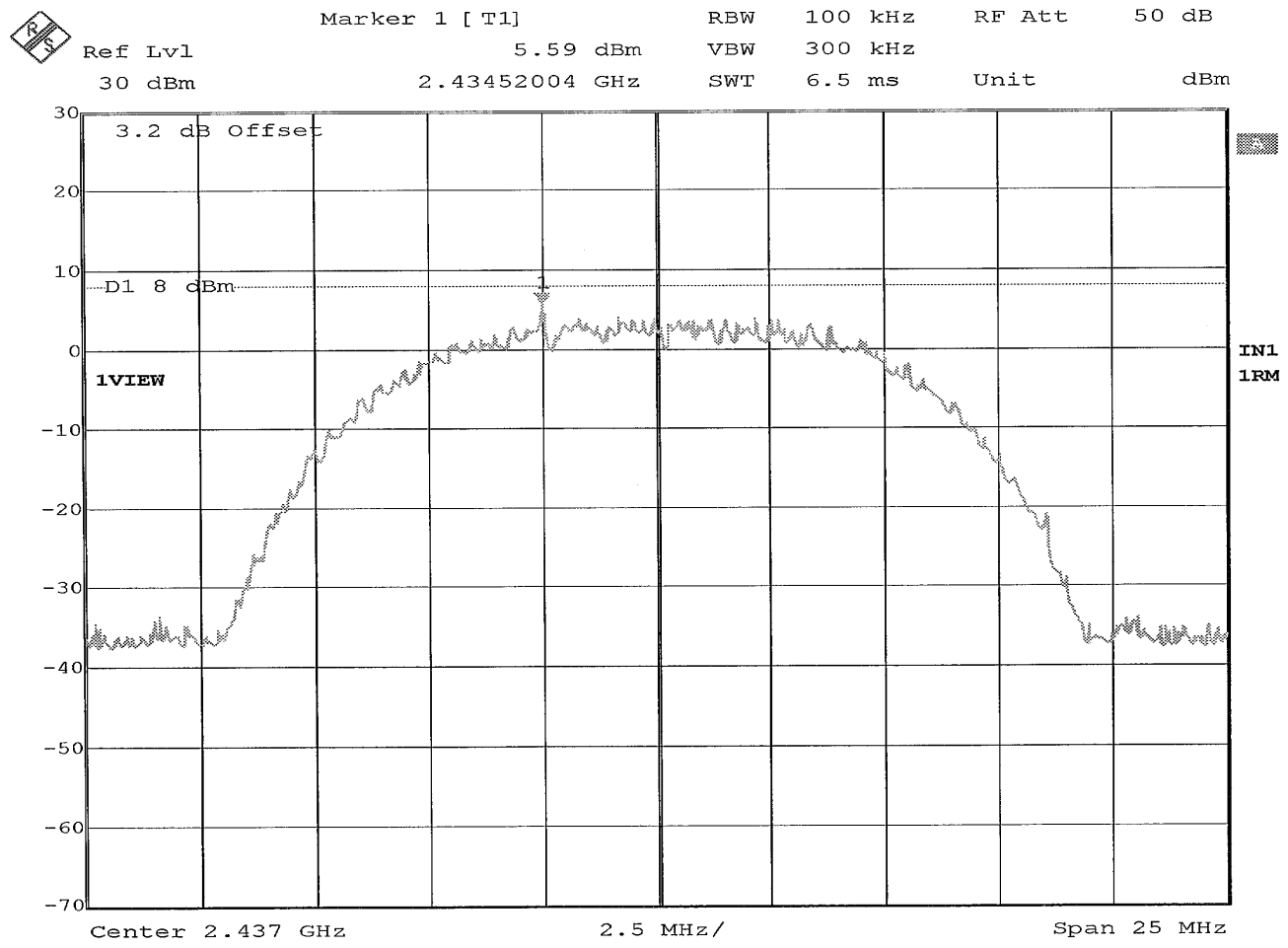
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (OFDM) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 0.12 dBm



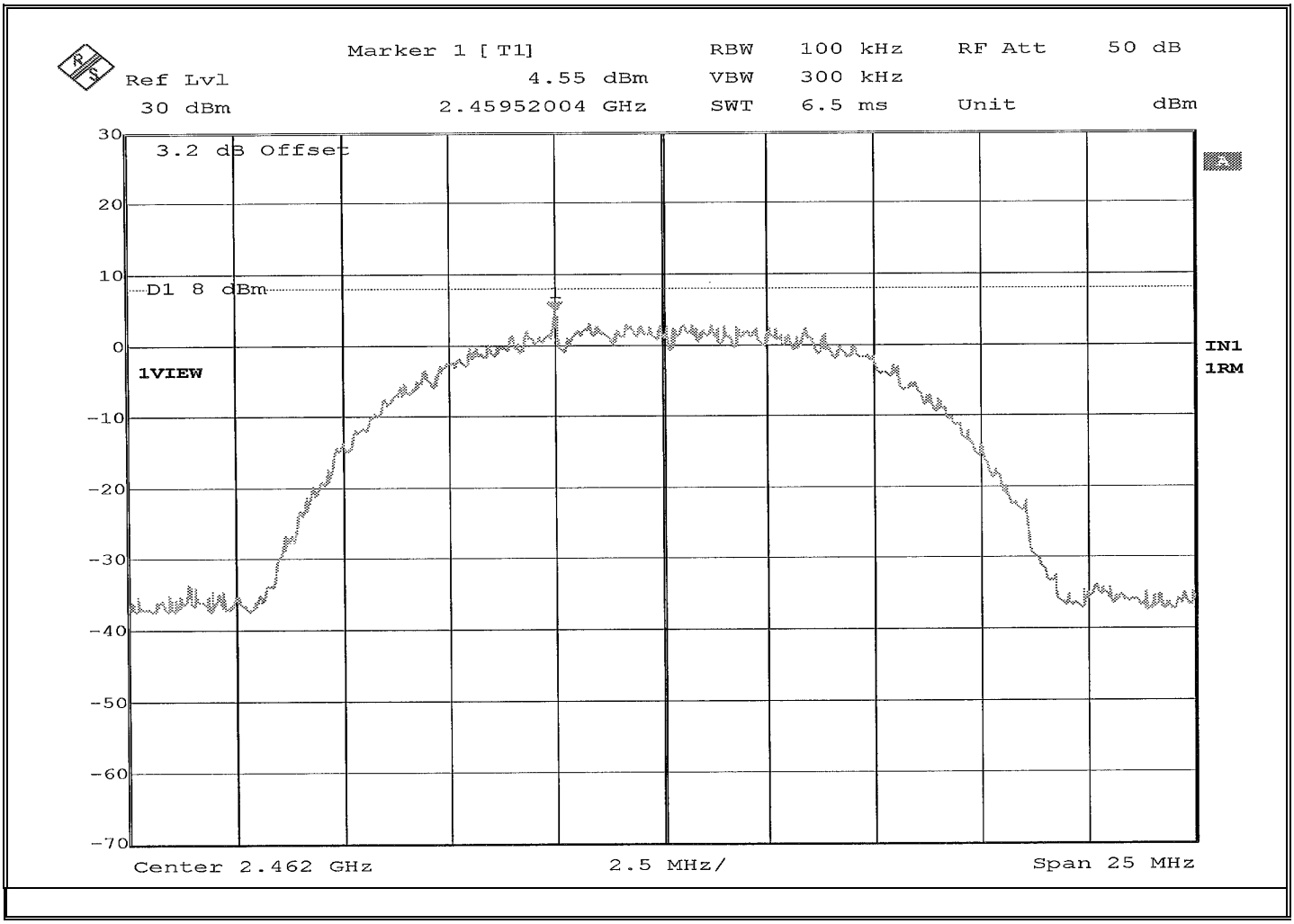
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 5.64 dBm



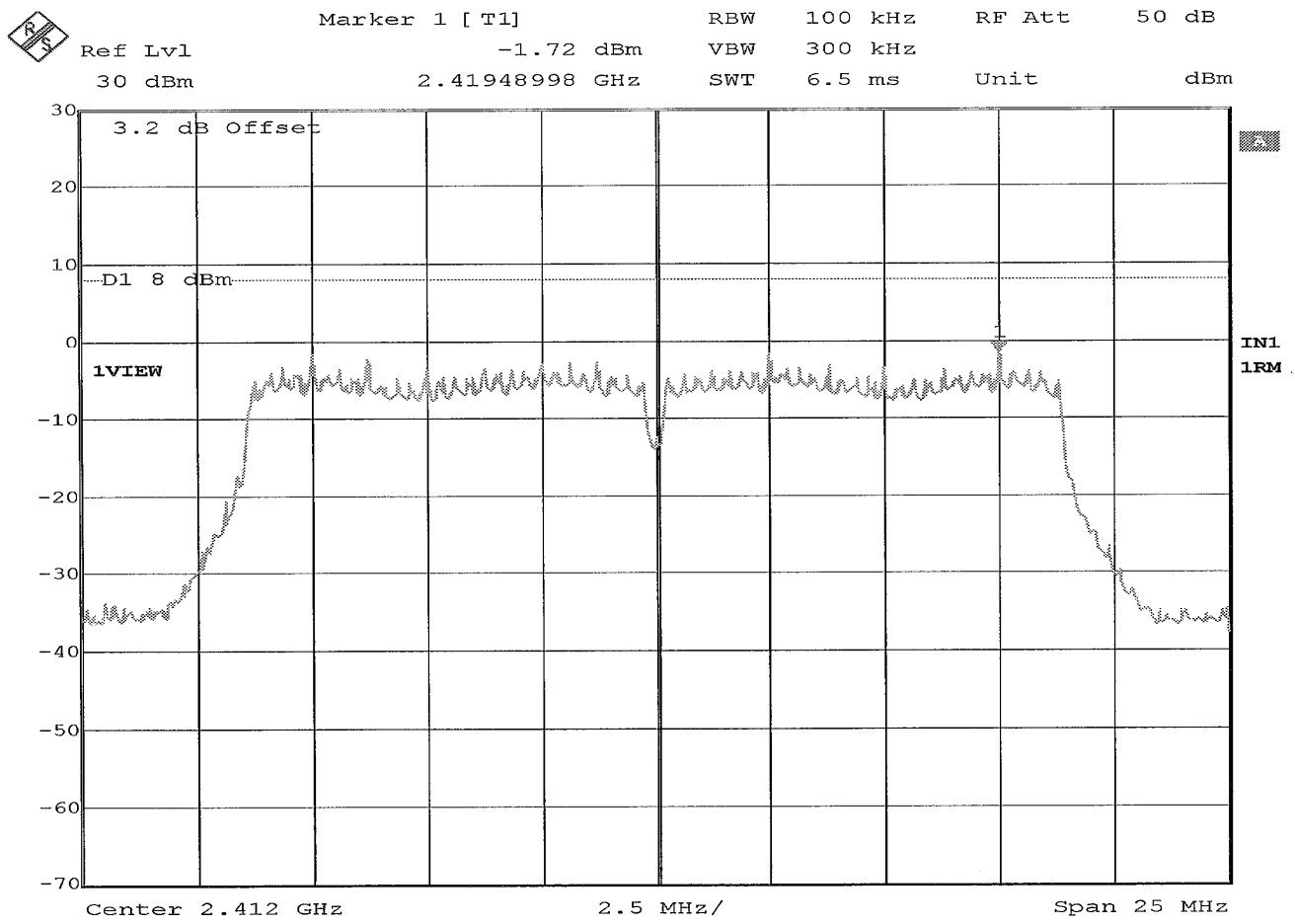
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 5.59 dBm



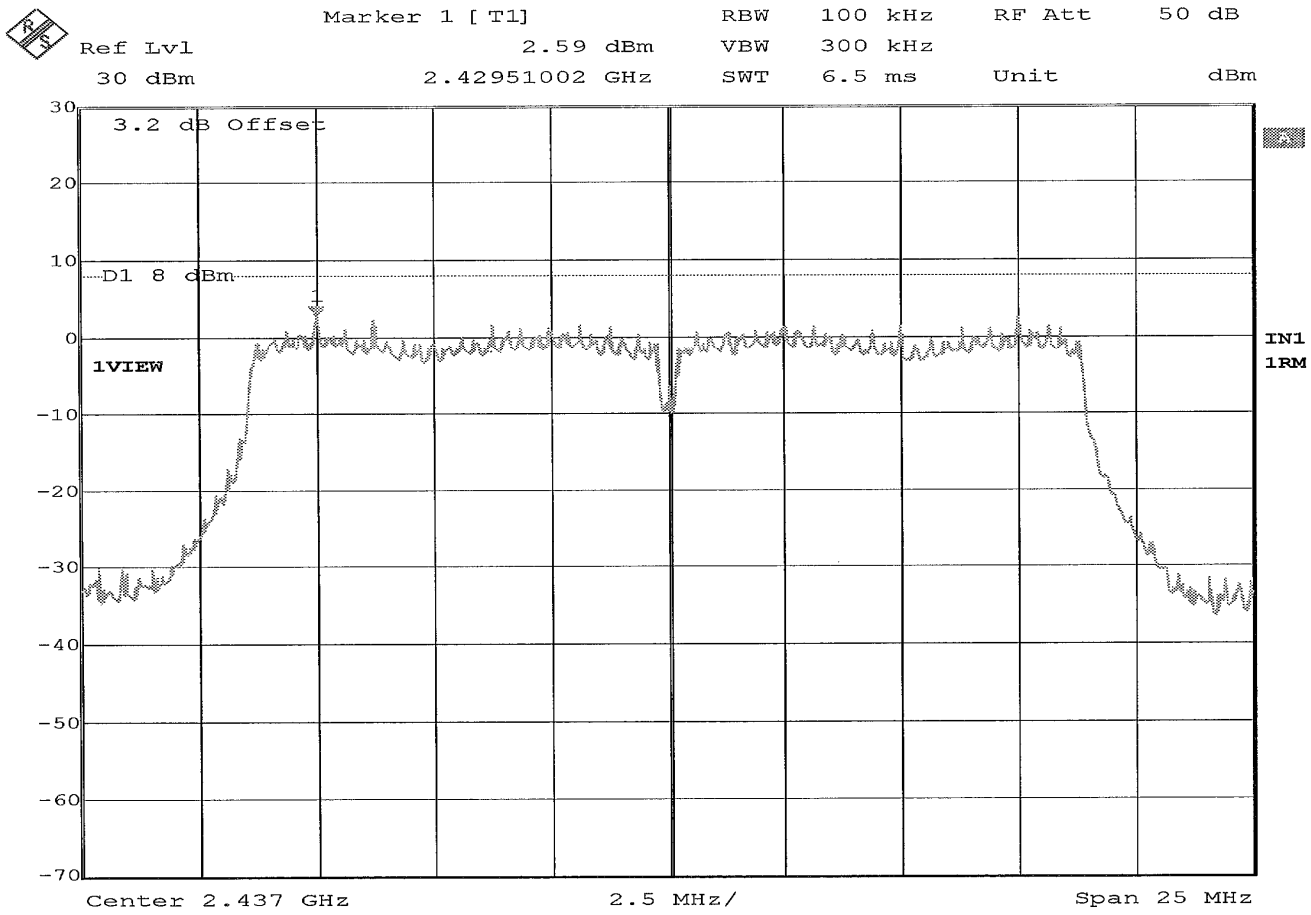
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (DSSS) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 4.55 dBm



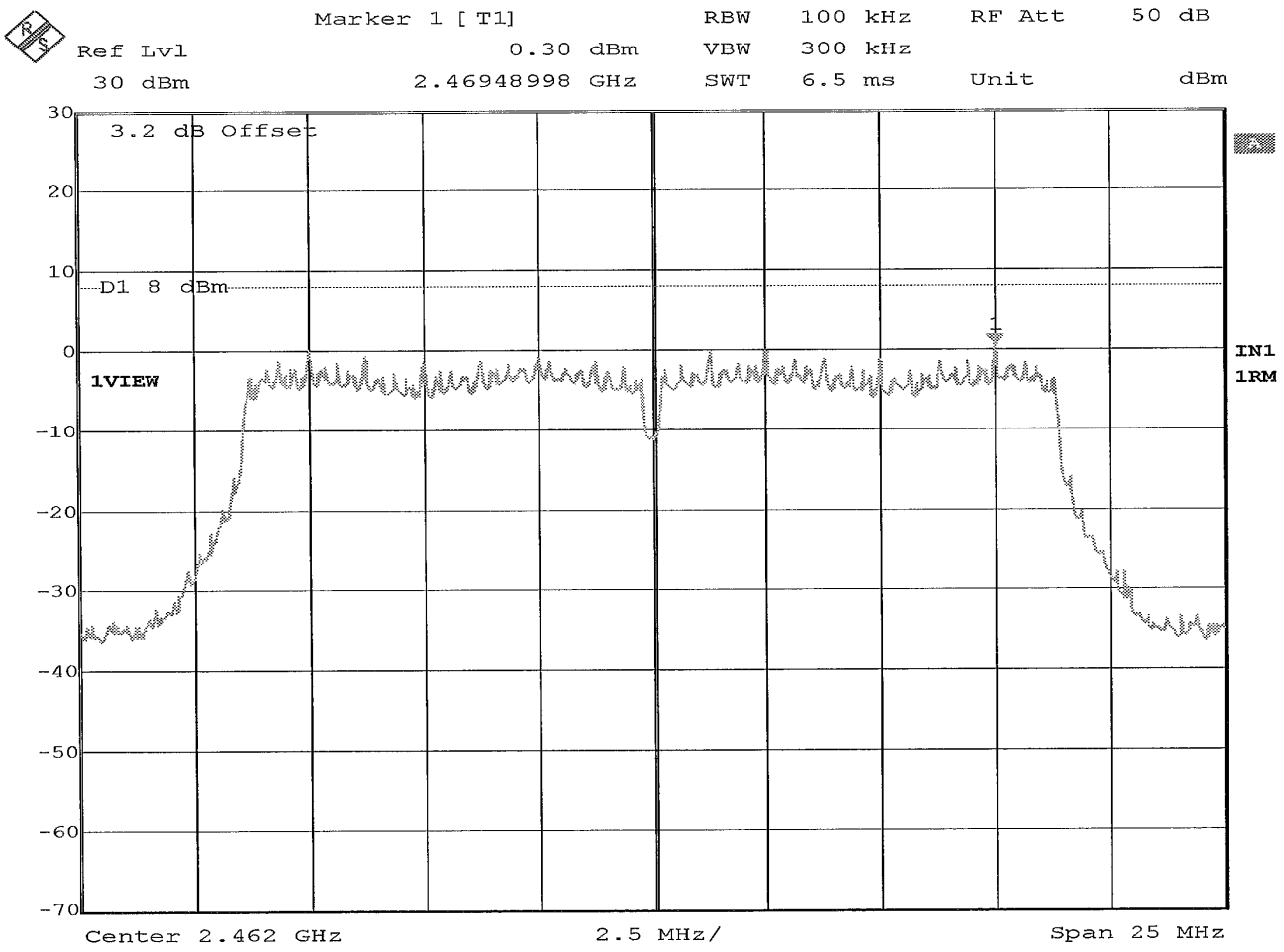
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2412 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: -1.72 dBm



EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2437 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 2.59 dBm



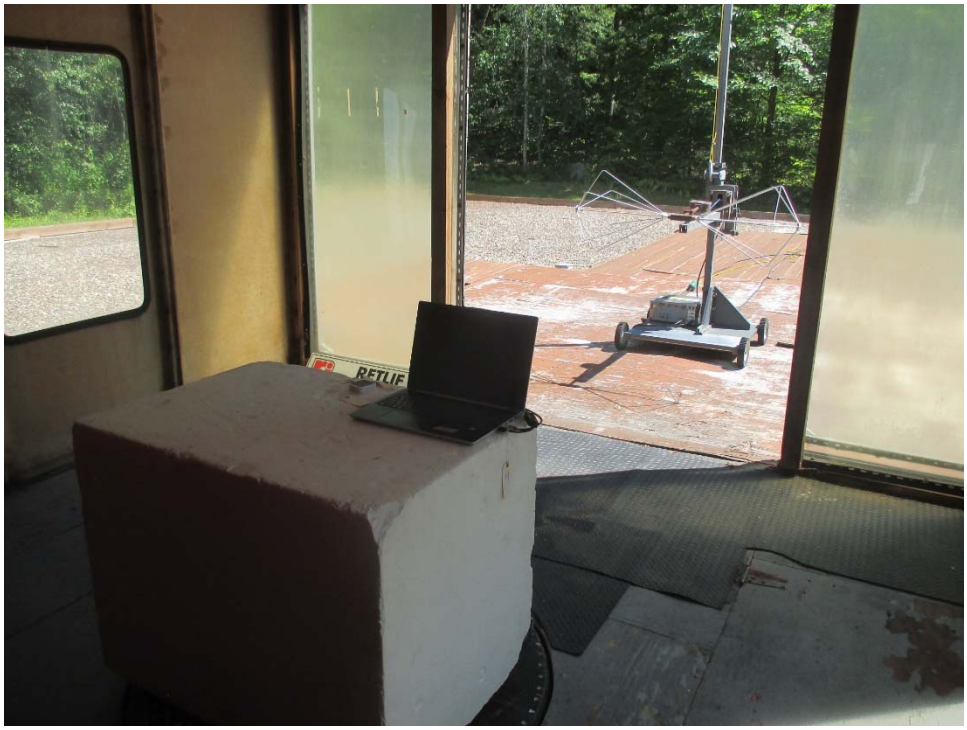
EMISSIONS TEST DATA SHEET	
Method:	**Power Spectral Density**
Test Specification:	FCC Part 15, Subpart C Paragraph: 15.247 (e)
Job Number:	R-6521H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal (Non11) at 2462 MHz
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp/ Relative Humidity:	21.5 °C / 51.6 %
Notes:	Power Spectral Density: 0.30 dBm



Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

EUT Configuration

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 30 to 200 MHz

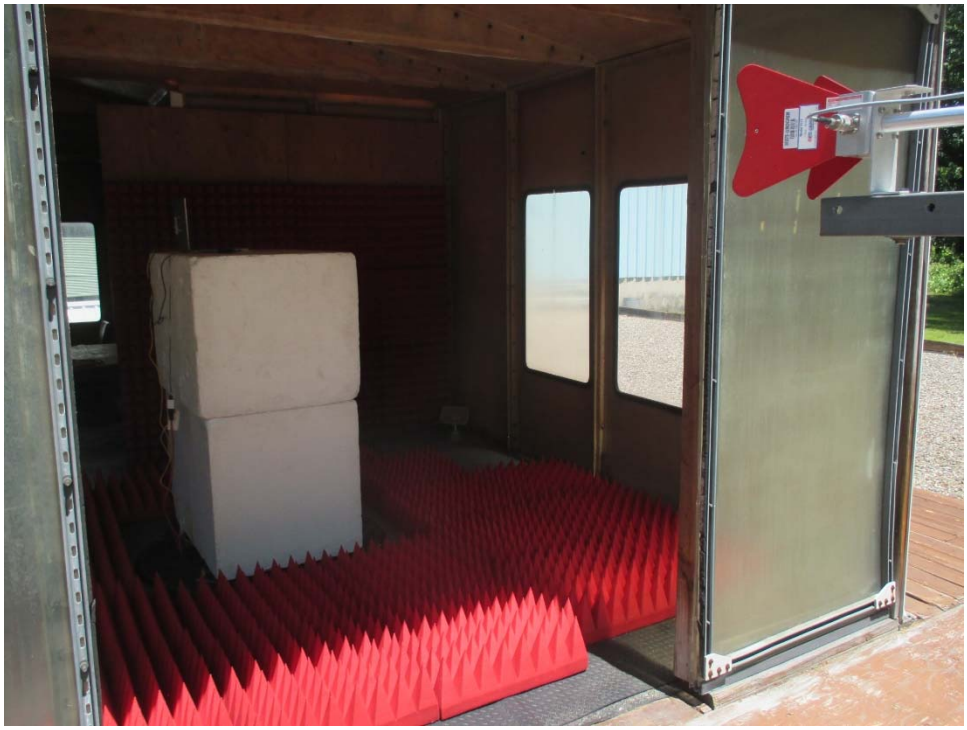
Vertical Polarization, 30 to 200 MHz

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

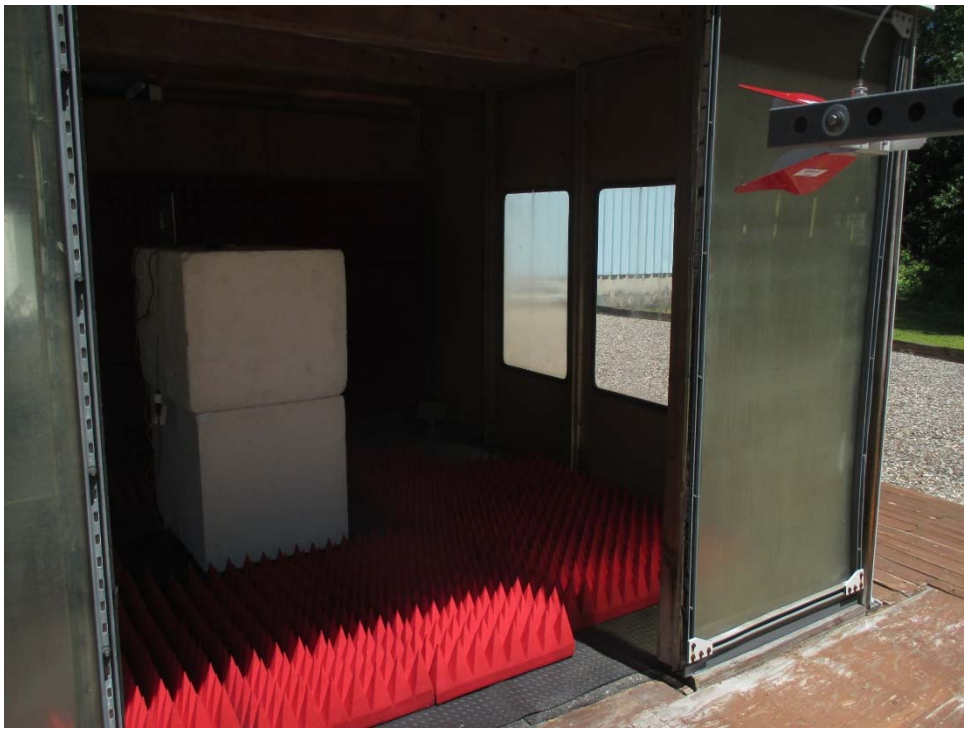
Horizontal Polarization, 200 MHz to 1 GHz

Vertical Polarization, 200 MHz to 1 GHz

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz



Horizontal Polarization, 1 to 18 GHz



Vertical Polarization, 1 to 18 GHz

Test Photographs
Spurious Radiated Emissions, 30 MHz to 25 GHz

Horizontal Polarization, 18 to 25 GHz

Vertical Polarization, 18 to 25 GHz

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

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET	
Test Method	**Spurious Emissions 30 MHz to 25 GHz**
Customer	Immedia Semiconductor, LLC.
Job Number	R-6601H-3
Test Sample	Blink Sync Module 2
Model Number	BSM00400U
Serial Number	G8T1-V700-1173-008C
Test Specification	FCC Part 15.247(d)
Operating Mode	Transmitting Modulated Signal
Technician	M. Seamans
Date	June 17th, 2021

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

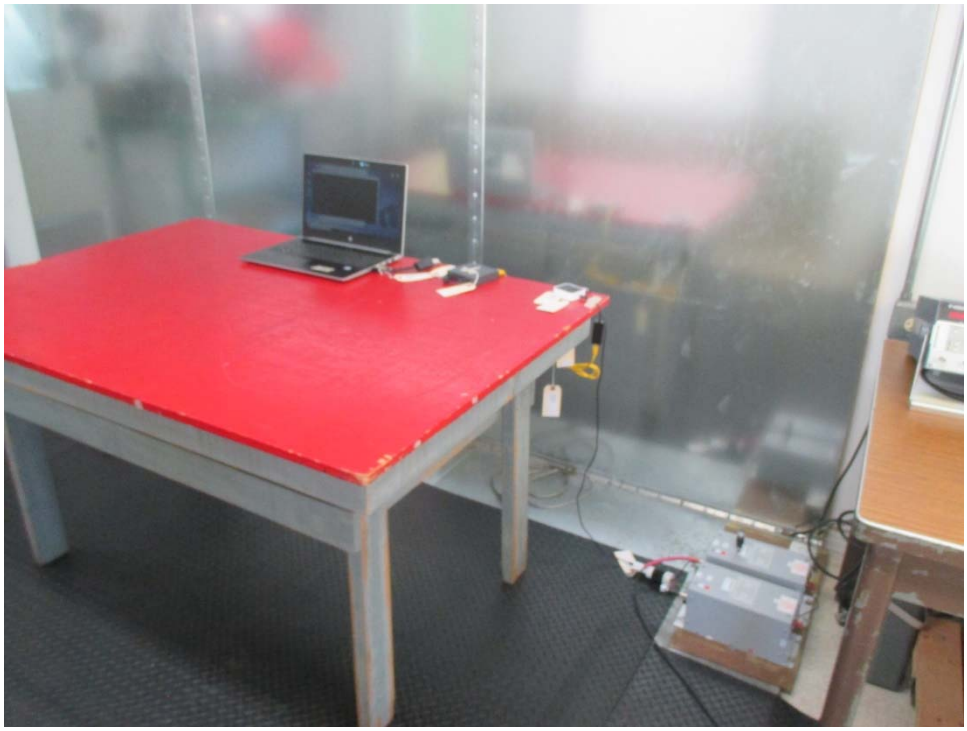
TEST PARAMETERS

Test Frequency	Measured Frequency	Meter Reading	Correction Factor	Corrected Reading			Converted Reading	Limit at 3M
MHz	MHz	dBuV	dB	dBuV/m			uV/m	uV/m
25.00	-	-	-	-			-	100.00
|	38.00	7.75	12.35	20.10	*		10.12	|
|	74.00	14.17	8.63	22.80	*		13.80	|
88.00	-	-	-	-			-	100.00
88.00	-	-	-	-			-	150.00
|	115.00	8.24	14.56	22.80	*		13.80	|
|	130.00	7.63	14.67	22.30	*		13.03	|
|	150.00	9.93	14.37	24.30	*		16.41	|
|	170.00	9.74	17.26	27.00	*		22.39	|
216.00	-	-	-	-			-	150.00
216.00	-	-	-	-			-	200.00
|	260.00	7.75	15.25	23.00	*		14.13	|
|	330.00	7.83	17.47	25.30	*		18.41	|
|	611.00	8.91	23.49	32.40	*		41.69	|
960.00	-	-	-	-			-	200.00
960.00	-	-	-	-			-	500.00
|	2490.00	31.00	1.03	32.03	*		39.95	|
|	9100.00	30.80	8.29	39.09	*		90.05	|
25000.00	-	-	-	-			-	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).

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

EUT Configuration



Test Setup

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

EMISSIONS TEST DATA SHEET	
Test Specification:	FCC Part 15, Subpart B, Section 15.207(a), Conducted Emissions
Method:	ANSI C63.4, Section 7., AC power-line conducted emission measurements
Job Number/Customer:	R-6601H-3 / Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-008C
Operating Mode:	Transmitting modulated signal
Technician:	M. Seamans
Date(s):	June 17th, 2021
Temp/ Relative Humidity:	21.6 °C / 45.8 %
Port Tested:	120 VAC 60 Hz

Frequency	Lead Tested	Peak Meter Reading	Quasi-Peak Meter Reading	Average Meter Reading	Quasi-Peak Limit	Average Limit
MHz		**dBuV**	**dBuv**	**dBuV**	**dBuV**	**dBuV**
0.417	Hot	48.98	45.40	32.60	57.51	47.51
0.416	Neutral	48.57	45.10	31.60	57.53	47.53
0.441	Hot	53.32	52.30	36.60	57.04	47.04
0.441	Neutral	53.46	51.90	35.10	57.04	47.04
0.465	Hot	51.07	50.50	33.90	56.60	46.60
0.465	Neutral	51.21	50.10	32.30	56.60	46.60
1.175	Hot	47.25	43.10	30.80	56	46
1.355	Neutral	45.25	42.40	25.80	56	46
1.405	Hot	47.80	41.00	28.10	56	46
1.666	Neutral	46.05	42.50	28.40	56	46
2.665	Hot	50.51	45.00	31.10	56	46
2.714	Neutral	47.25	40.60	25.10	56	46

The frequency range was scanned from 0.15 MHz to 30 MHz.
The six highest emissions relative to the limit are presented.
The emissions observed from the EUT do not exceed the specified limits.

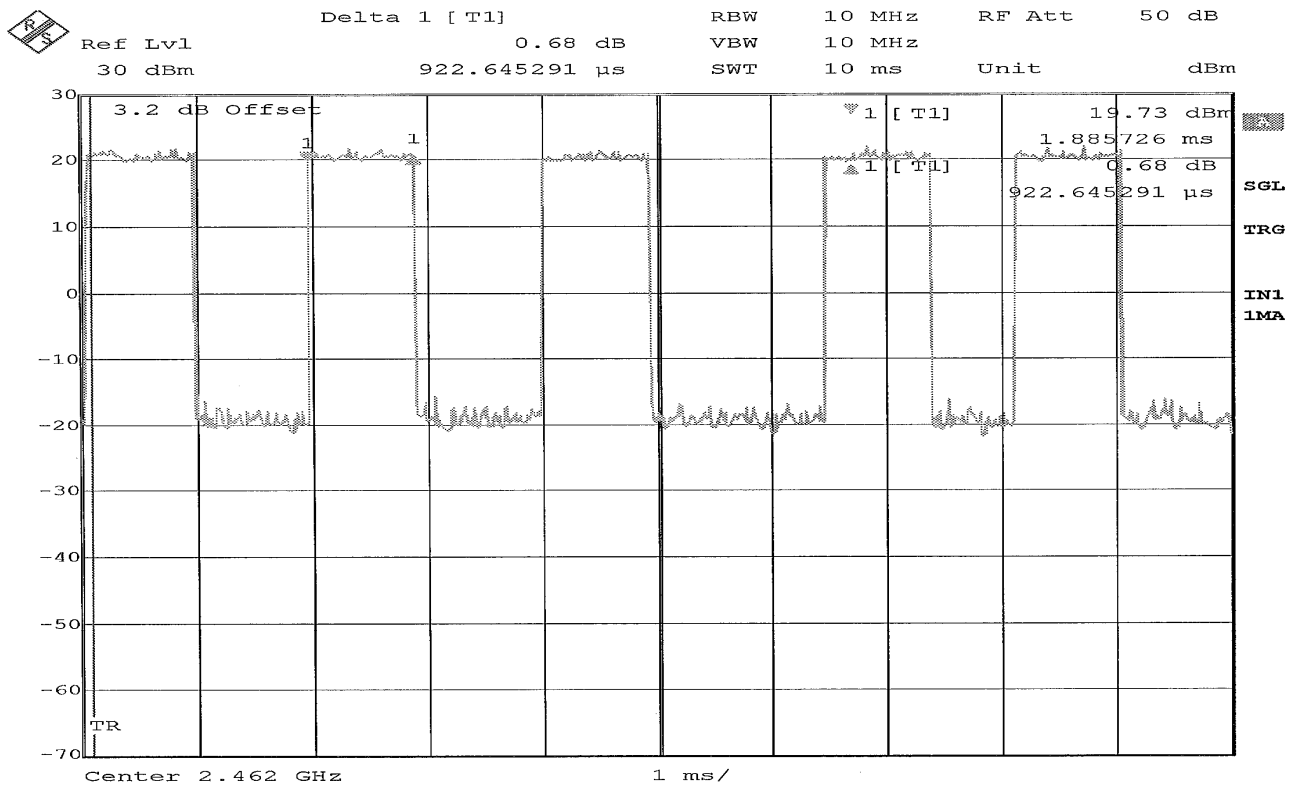
Test Photographs
Duty Cycle

Test Setup

FCC 15.247 / RSS-247, ANSI C63.10
Duty Cycle
Test Data

EMISSIONS TEST DATA SHEET	
Method:	**Duty Cycle**
Test Specification:	**FCC 15.247, ANSI C63.10**
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp / Relative Humidity:	21.1 ºC / 52.4 %

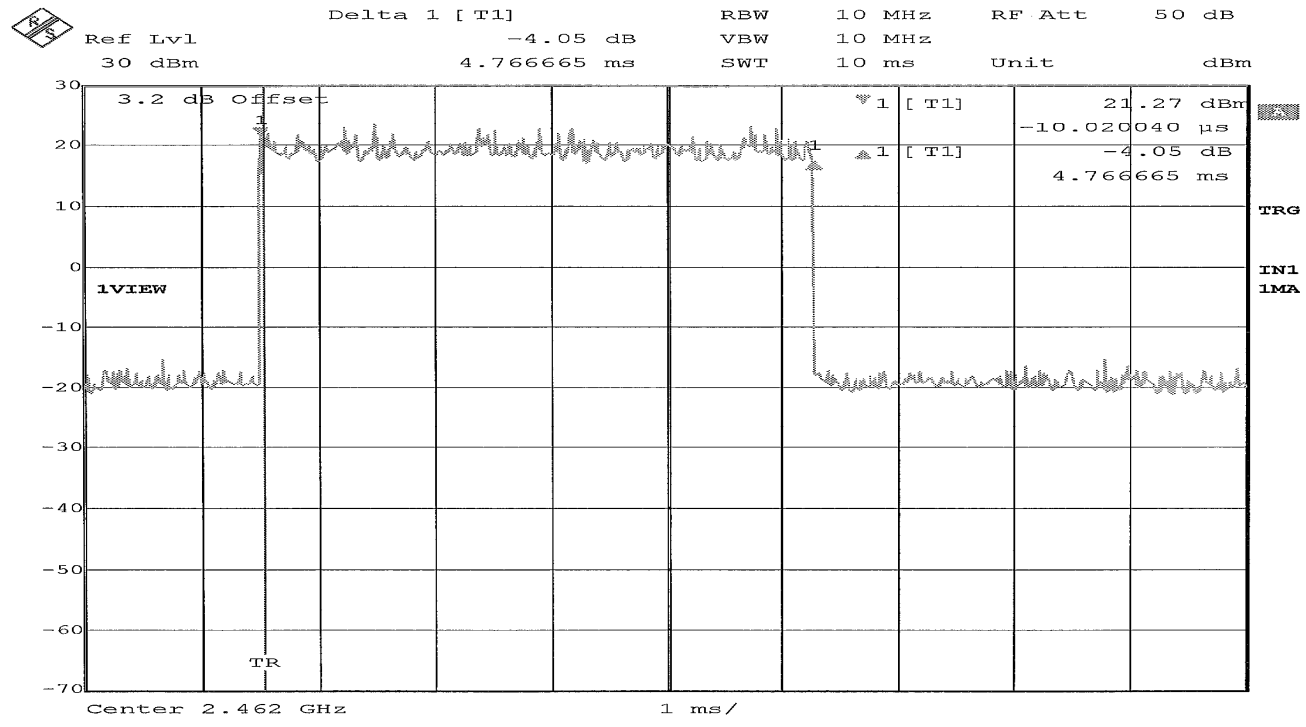
TEST PARAMETERS				
Channel	**Measured on time**	**Measured time interval**	**Duty Cycle Calculation**	**Result**
#	**msec**	**msec**		
1	4.613	10	= (4.631ms/ 10 ms)*100	46.31 %
Worst case Duty Cycle showing <98% Duty Cycle, and >2% variations in multiple transmissions.				



On Time: 922.645us * 5 Pulses

EMISSIONS TEST DATA SHEET	
Method:	**Duty Cycle**
Test Specification:	**FCC 15.247, ANSI C63.10**
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp / Relative Humidity:	21.1 ºC / 52.4 %

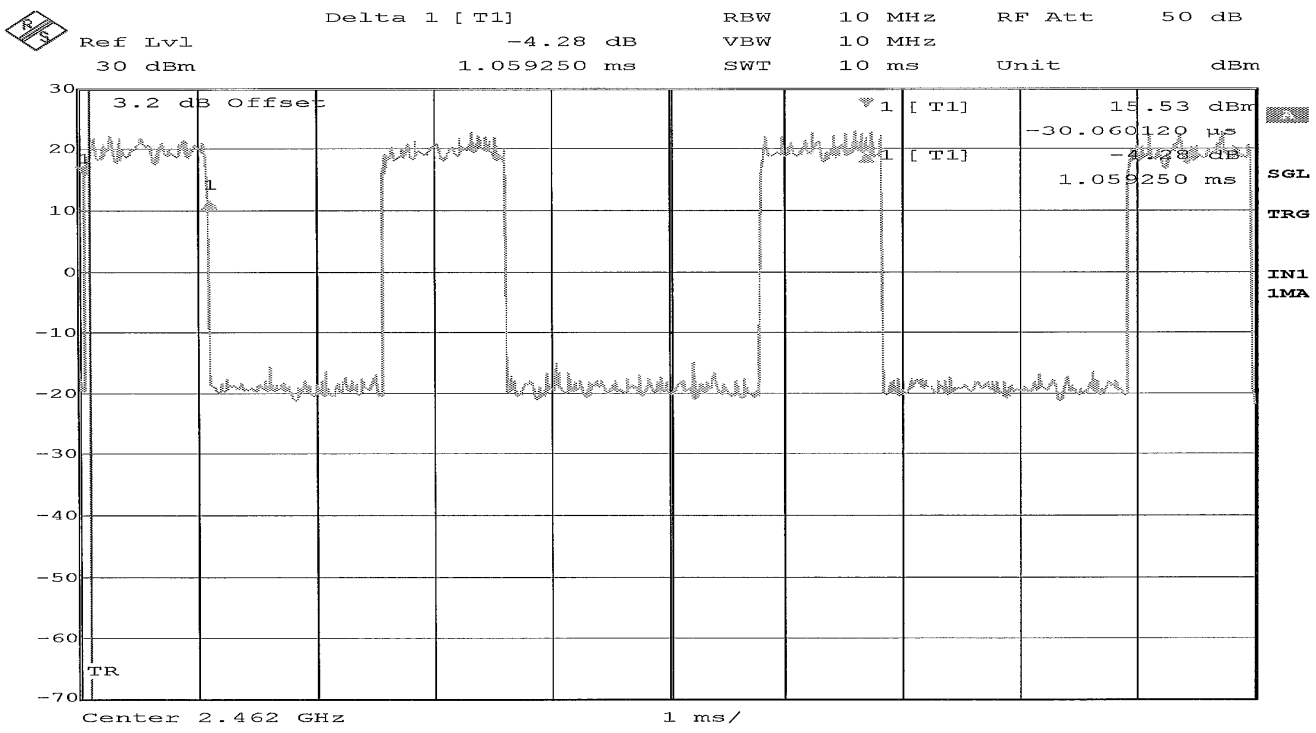
TEST PARAMETERS				
Channel	**Measured on time**	**Measured time interval**	**Duty Cycle Calculation**	**Result**
#	**msec**	**msec**		
1	4.766	10	= (4.766ms/ 10 ms)*100	47.66 %
Worst case Duty Cycle showing <98% Duty Cycle, and >2% variations in multiple transmissions.				



On Time: 4.766ms

EMISSIONS TEST DATA SHEET	
Method:	**Duty Cycle**
Test Specification:	**FCC 15.247, ANSI C63.10**
Job Number:	R-6601H-3
Customer:	Immedia Semiconductor, LLC.
Test Sample:	Blink Sync Module 2
Model Number:	BSM00400U
Serial Number:	G8T1-V700-1173-00B7
Operating Mode:	Transmitting modulated signal
Technician:	M. Seamans
Date(s):	June 14th, 2021
Temp / Relative Humidity:	21.1 ºC / 52.4 %

TEST PARAMETERS				
Channel	**Measured on time**	**Measured time interval**	**Duty Cycle Calculation**	**Result**
#	**msec**	**msec**		
1	4.236	10	= (4.236ms/ 10 ms)*100	42.36 %
Worst case Duty Cycle showing <98% Duty Cycle, and >2% variations in multiple transmissions.				



On Time: 1.059ms * 4 pulses