

FCC Radio Test Report

FCC ID: 2AFRF-CF101

Original Grant

Report No. : TB-FCC145233
Applicant : CamFi Limited
Equipment Under Test (EUT)
EUT Name : CamFi Remote Camera Controller
Model No. : CF101
Series Model No. : N/A
Brand Name : CamFi
Receipt Date : 2015-08-26
Test Date : 2015-08-26 to 2015-09-10
Issue Date : 2015-09-11
Standards : FCC Part 15: 2014, Subpart C(15.247)
Test Method : ANSI C63.10:2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer :

IVAN SU

Approved& Authorized :

Ray



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information about EUT

1.1 Client Information

Applicant : CamFi Limited

Address : Room A1002-1, Venture Building, TsingHua Science Park, No.101 College Road, Tangjiawan, Zhuhai, PRC.

Manufacturer : CamFi Limited

Address : Room A1002-1, Venture Building, TsingHua Science Park, No.101 College Road, Tangjiawan, Zhuhai, PRC.

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	CamFi Remote Camera Controller	
Models No.	:	CF101	
Model Difference	:	N/A	
Product Description	:	Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz	
		Number of Channel:	802.11b/g/n(HT20):11 channels see note(3) 802.11n(HT40): 7 channels see note(3)
		RF Output Power:	802.11b: 9.18 dBm 802.11g: 9.13 dBm 802.11n (HT20): 9.04 dBm 802.11n (HT40): 9.06 dBm
		Antenna Gain:	0.9 dBi PIFA Antenna
		Modulation Type:	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11n: OFDM
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n:up to 150Mbps
Power Supply	:	DC power by USB cable form Host System. DC power by Li-ion battery.	
Power Rating	:	DC 5V by USB Cable from PC system. DC 3.7V 1800mAh by Li-ion Battery.	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

(1) This Test Report is FCC Part 15.247 for 802.11b/g/n, the test procedure follows the FCC

KDB 558074 D01 DTS Meas Guidance v03r03.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

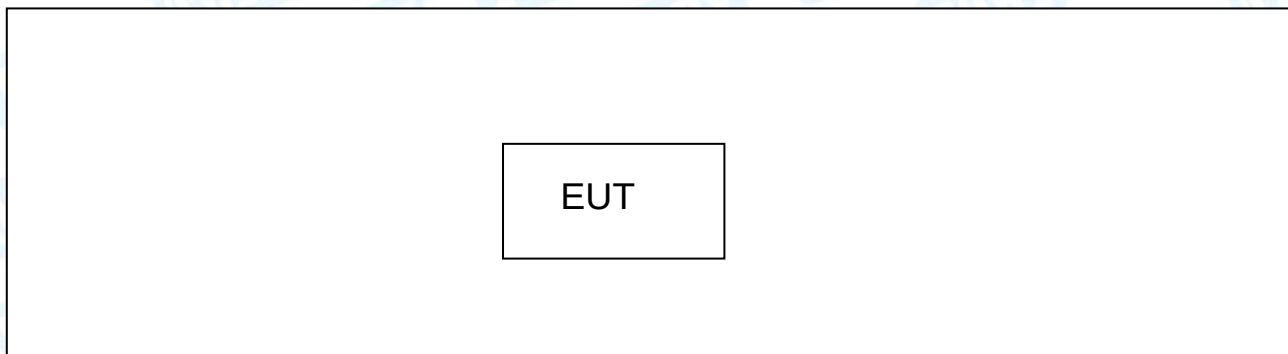
(3) Antenna information provided by the applicant.

(4) Channel List:

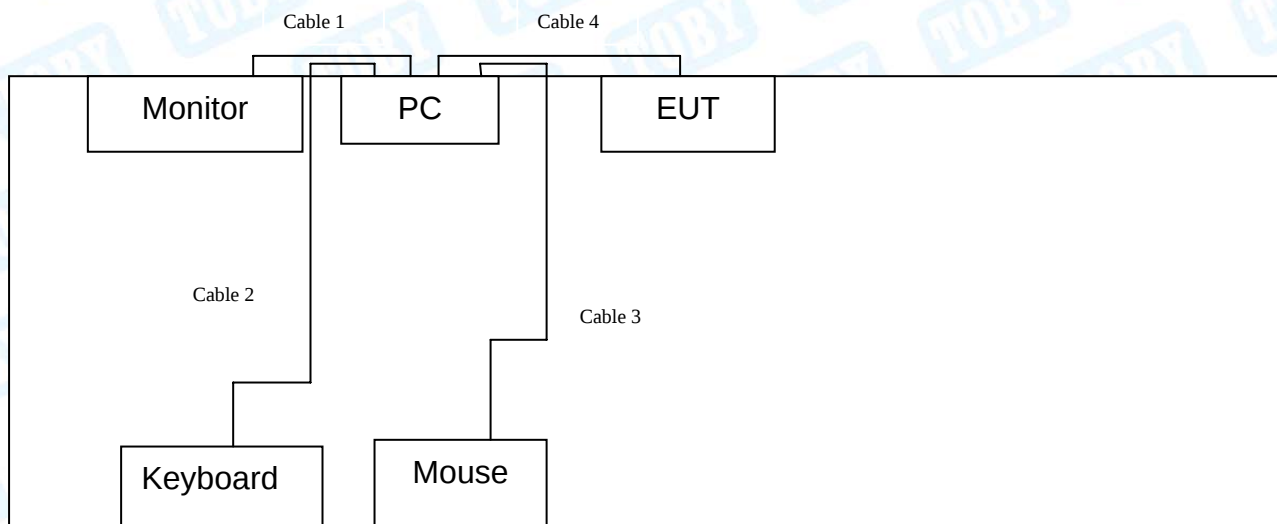
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		
Note: CH 01~CH 11 for 802.11b/g/n(HT20) CH 03~CH 09 for 802.11n(HT40)					

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



USB Charging with TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/DOC	Manufacturer	Used “√”
LCD Monitor	E170Sc	DOC	DELL	√
PC	OPTIPLEX380	DOC	DELL	√
Keyboard	L100	DOC	DELL	√
Mouse	M-UARDEL7	DOC	DELL	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	YES	YES	1.5M	
Cable 2	YES	YES	1.5M	
Cable 2	YES	NO	1.5M	
Cable 3	NO	YES	0.8M	

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Charging with TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 3	TX Mode B Mode Channel 01/06/11
Mode 4	TX Mode G Mode Channel 01/06/11
Mode 5	TX Mode N(HT20) Mode Channel 01/06/11
Mode 6	TX Mode N(HT40) Mode Channel 03/06/09

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, Middle, lowest available channels, and the worst case data rate as follows:

- 802.11b Mode: CCK (1 Mbps)
- 802.11g Mode: OFDM (6 Mbps)
- 802.11n (HT20) Mode: MCS 0 (6.5 Mbps)
- 802.11n (HT40) Mode: MCS 0 (13 Mbps)

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software Version	N/A		
Channel	CH 01	CH 06	CH 11
IEEE 802.11b DSSS	DEF	DEF	DEF
IEEE 802.11g OFDM	DEF	DEF	DEF
IEEE 802.11n (HT20)	DEF	DEF	DEF
Channel	CH 03	CH 06	CH 09
IEEE 802.11n (HT40)	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz	± 3.42 dB
	150kHz to 30MHz	± 3.42 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1				
Standard Section		Test Item	Judgment	Remark
FCC	IC			
15.203	/	Antenna Requirement	PASS	N/A
15.207	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205	RSS-GEN 7.2.2	Restricted Bands	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
Note: "/" for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

3. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 07, 2015	Aug. 06, 2016
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 07, 2015	Aug. 06, 2016
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 07, 2015	Aug. 06, 2016
LISN	Rohde & Schwarz	ENV216	101131	Aug. 07, 2015	Aug. 06, 2016
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 29, 2015	Aug. 28, 2016
EMI Test Receiver	Rohde & Schwarz	ESCI	100010/007	Aug. 07, 2015	Aug. 06, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 28, 2015	Mar. 27, 2016
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 28, 2015	Mar. 27, 2016
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	Sonoma	310N	185903	Mar. 28, 2015	Mar. 27, 2016
Pre-amplifier	HP	8447B	3008A00849	Mar. 28, 2015	Mar. 27, 2016
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 28, 2015	Mar. 27, 2016
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard

FCC Part 15.207

4.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

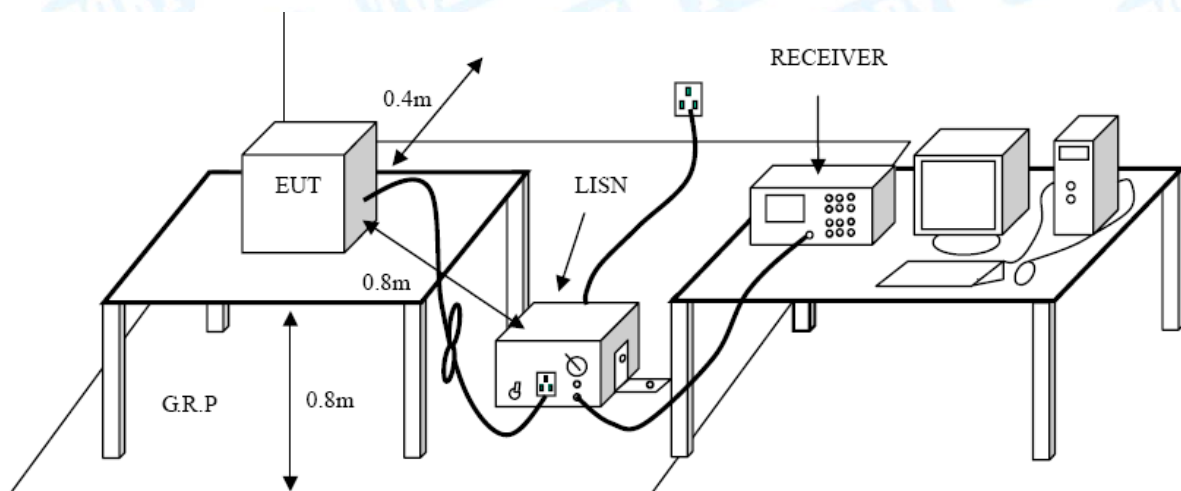
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

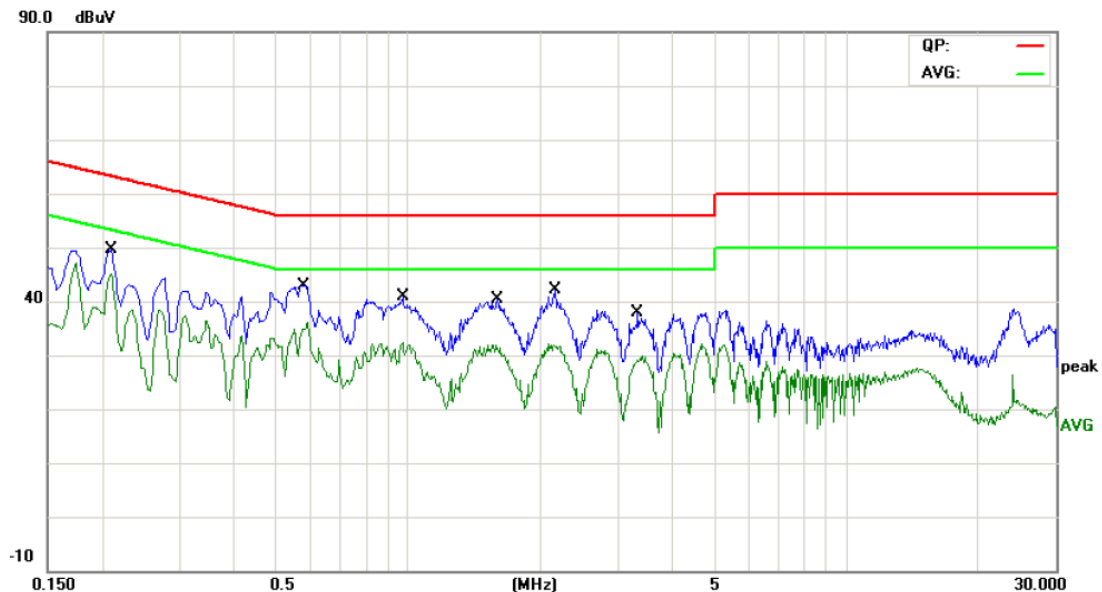
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page

EUT:	CamFi Remote Camera Controller	Model Name :	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		

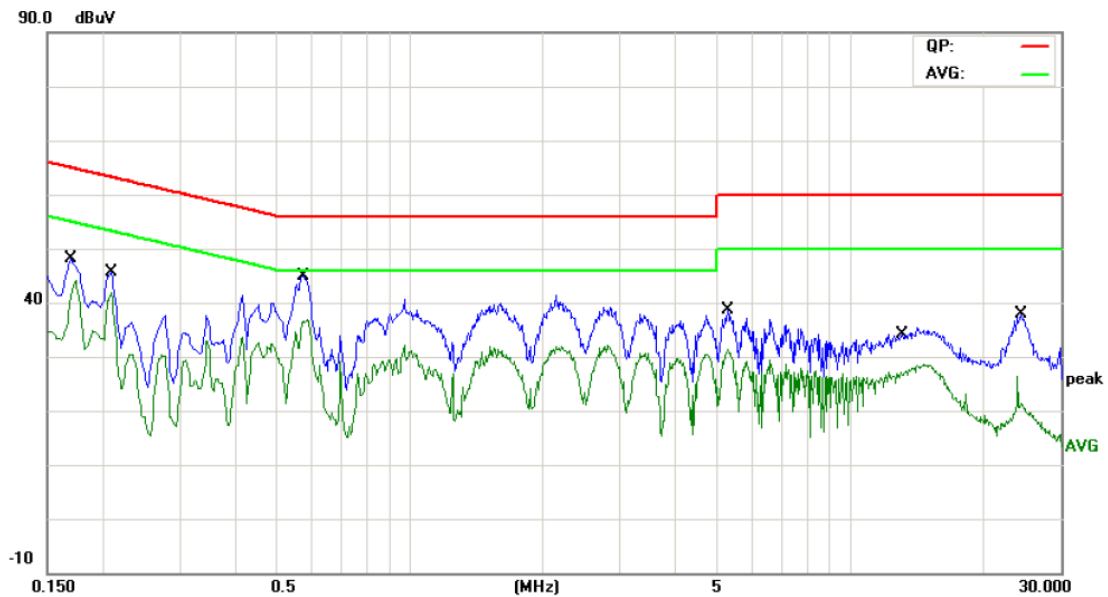


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2100	37.92	10.02	47.94	63.20	-15.26	QP
2	*	0.2100	34.61	10.02	44.63	53.20	-8.57	AVG
3		0.5780	32.23	10.06	42.29	56.00	-13.71	QP
4		0.5780	24.84	10.06	34.90	46.00	-11.10	AVG
5		0.9700	28.23	10.07	38.30	56.00	-17.70	QP
6		0.9700	22.01	10.07	32.08	46.00	-13.92	AVG
7		1.5940	26.34	10.06	36.40	56.00	-19.60	QP
8		1.5940	21.02	10.06	31.08	46.00	-14.92	AVG
9		2.1619	25.75	10.05	35.80	56.00	-20.20	QP
10		2.1619	21.10	10.05	31.15	46.00	-14.85	AVG
11		3.3300	23.36	10.02	33.38	56.00	-22.62	QP
12		3.3300	19.11	10.02	29.13	46.00	-16.87	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model Name :	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		

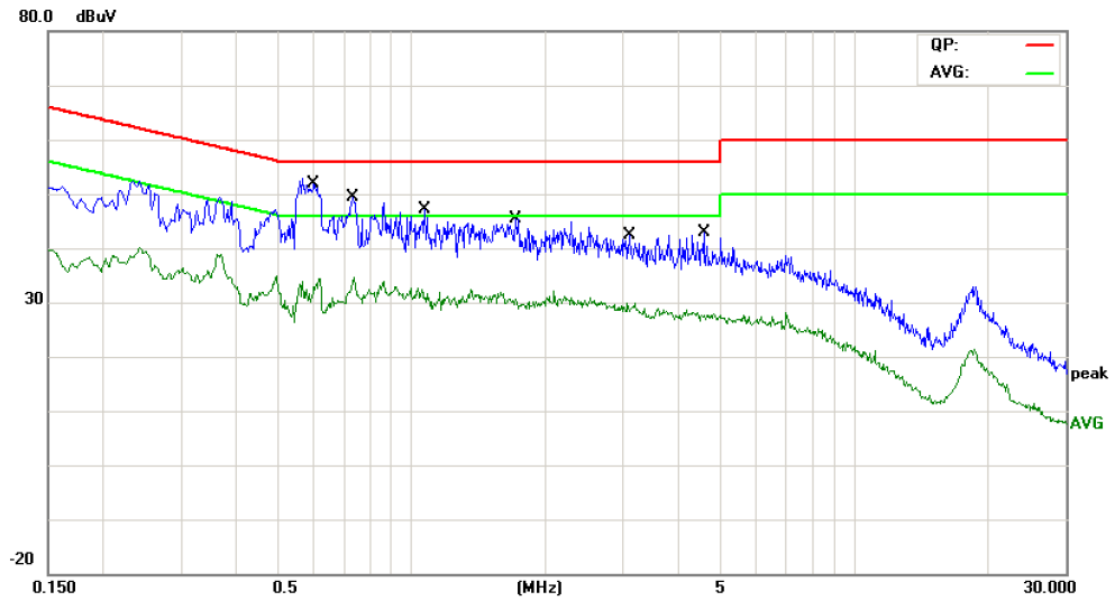


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1720	35.64	10.12	45.76	64.86	-19.10	QP
2		0.1720	34.17	10.12	44.29	54.86	-10.57	AVG
3		0.2100	33.92	10.12	44.04	63.20	-19.16	QP
4		0.2100	31.18	10.12	41.30	53.20	-11.90	AVG
5		0.5740	34.00	10.02	44.02	56.00	-11.98	QP
6	*	0.5740	26.53	10.02	36.55	46.00	-9.45	AVG
7		5.2740	24.98	10.06	35.04	60.00	-24.96	QP
8		5.2740	21.20	10.06	31.26	50.00	-18.74	AVG
9		13.1140	20.52	10.10	30.62	60.00	-29.38	QP
10		13.1140	16.82	10.10	26.92	50.00	-23.08	AVG
11		24.3460	22.53	10.06	32.59	60.00	-27.41	QP
12		24.3460	9.92	10.06	19.98	50.00	-30.02	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model Name :	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		

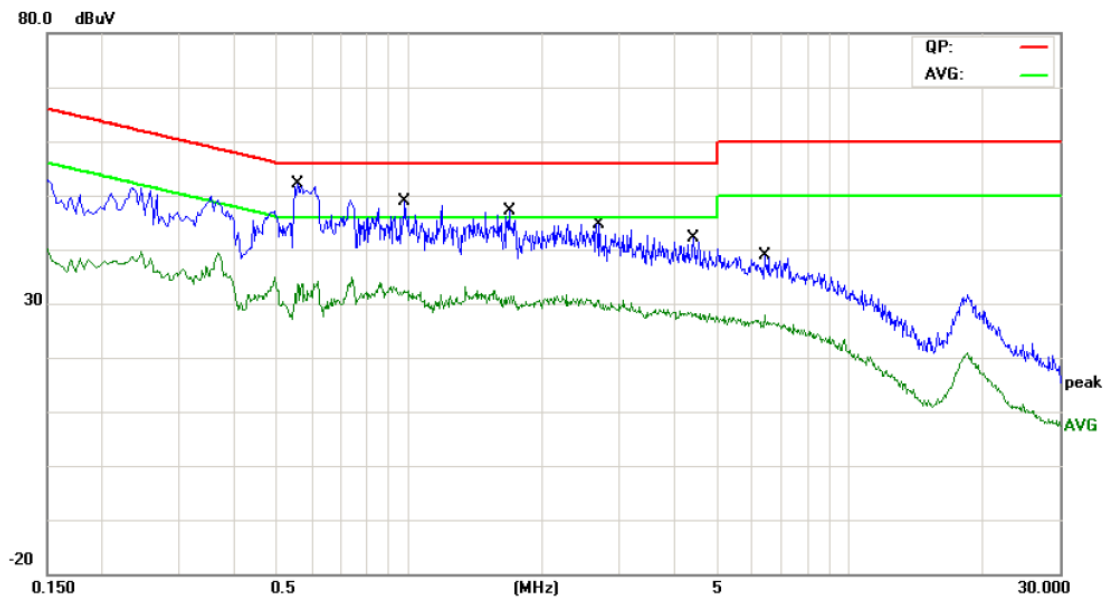


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	*	0.5980	37.62	10.07	47.69	56.00	-8.31	QP
2		0.5980	21.09	10.07	31.16	46.00	-14.84	AVG
3		0.7340	35.26	10.11	45.37	56.00	-10.63	QP
4		0.7340	23.37	10.11	33.48	46.00	-12.52	AVG
5		1.0700	28.20	10.06	38.26	56.00	-17.74	QP
6		1.0700	19.79	10.06	29.85	46.00	-16.15	AVG
7		1.7140	27.35	10.06	37.41	56.00	-18.59	QP
8		1.7140	19.59	10.06	29.65	46.00	-16.35	AVG
9		3.0980	24.30	10.02	34.32	56.00	-21.68	QP
10		3.0980	18.11	10.02	28.13	46.00	-17.87	AVG
11		4.5658	22.42	9.97	32.39	56.00	-23.61	QP
12		4.5658	16.61	9.97	26.58	46.00	-19.42	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model Name :	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	USB Charging with TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.5580	38.11	10.02	48.13	56.00	-7.87	QP
2		0.5580	21.74	10.02	31.76	46.00	-14.24	AVG
3		0.9780	28.67	10.15	38.82	56.00	-17.18	QP
4		0.9780	21.06	10.15	31.21	46.00	-14.79	AVG
5		1.6860	26.53	10.09	36.62	56.00	-19.38	QP
6		1.6860	19.20	10.09	29.29	46.00	-16.71	AVG
7		2.6940	25.23	10.06	35.29	56.00	-20.71	QP
8		2.6940	19.22	10.06	29.28	46.00	-16.72	AVG
9		4.4140	23.23	10.06	33.29	56.00	-22.71	QP
10		4.4140	17.34	10.06	27.40	46.00	-18.60	AVG
11		6.4180	21.33	10.06	31.39	60.00	-28.61	QP
12		6.4180	15.63	10.06	25.69	50.00	-24.31	AVG

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

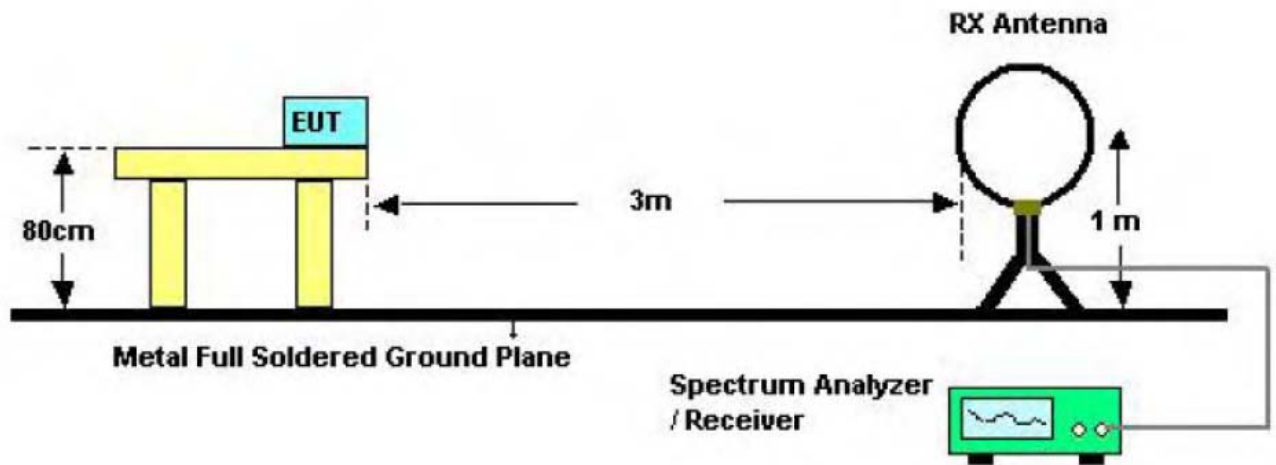
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

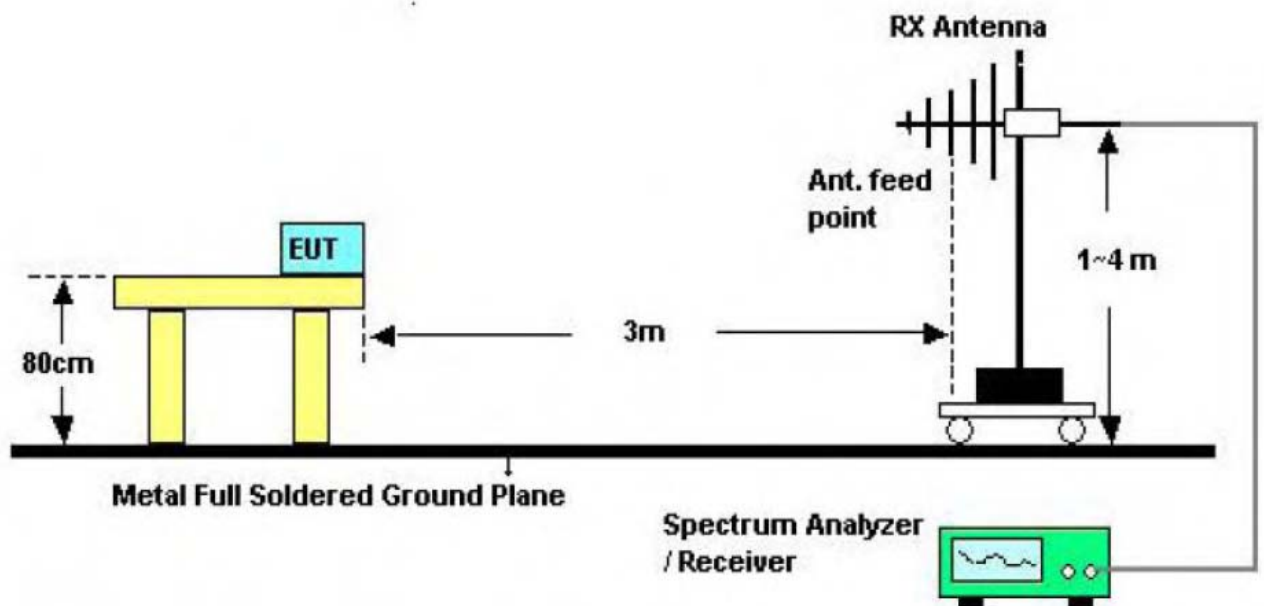
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

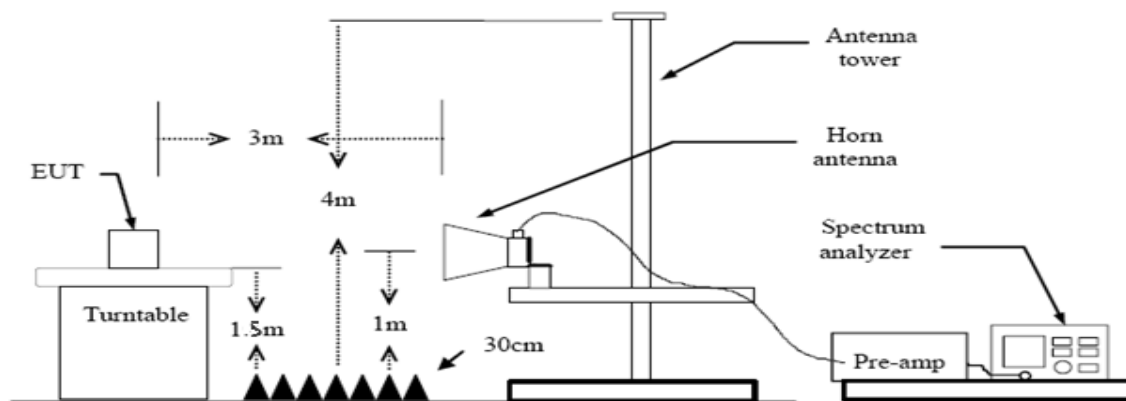
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

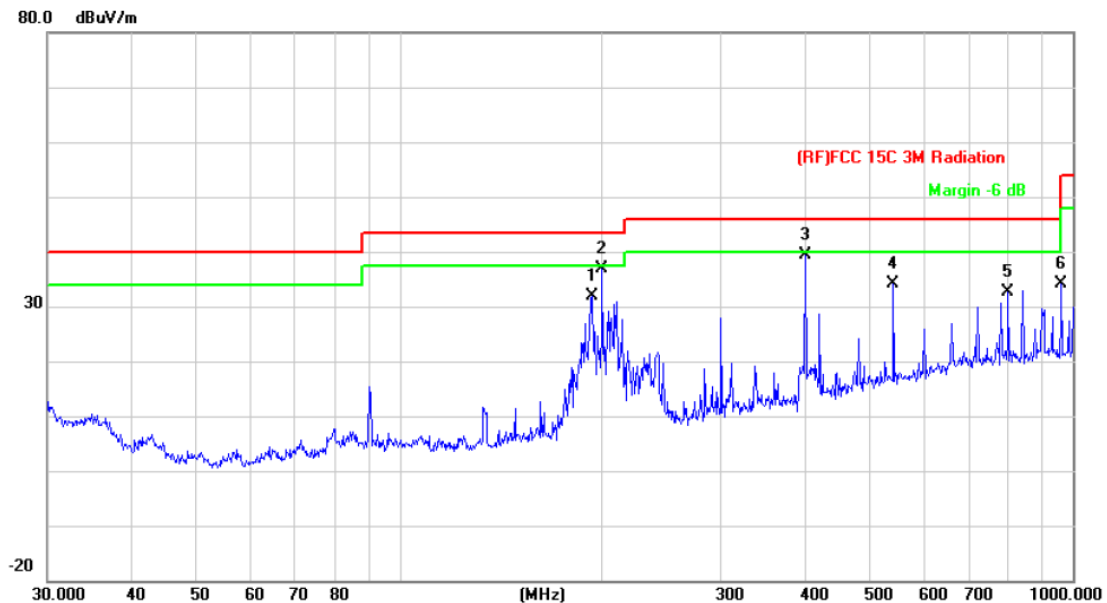
The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Test data please refer the following pages.

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

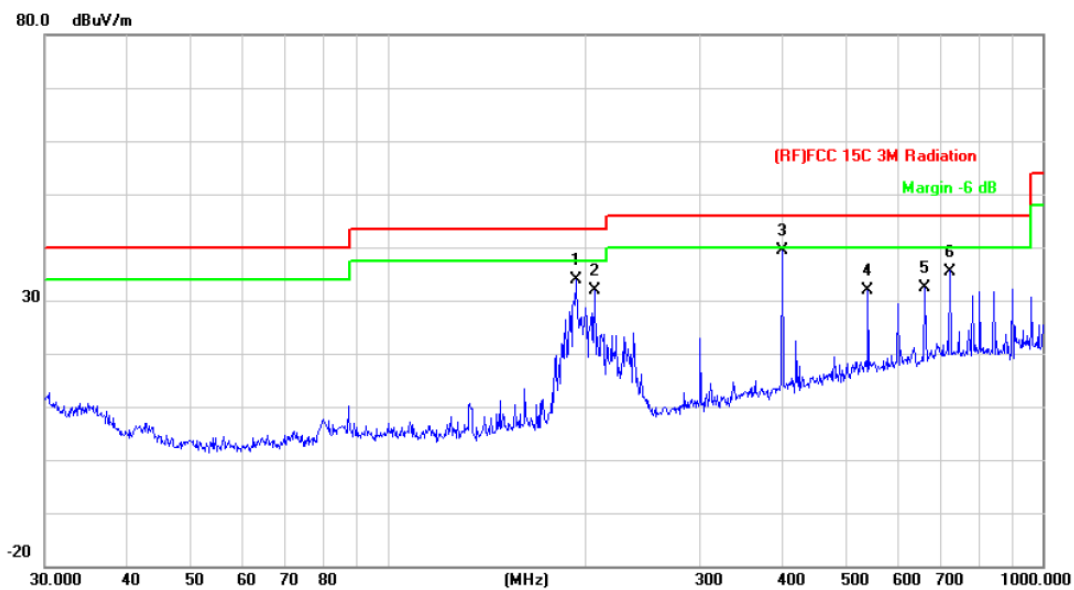


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		193.0945	52.64	-20.75	31.89	43.50	-11.61	peak
2	*	199.9856	57.19	-20.39	36.80	43.50	-6.70	peak
3		400.4318	52.06	-12.80	39.26	46.00	-6.74	peak
4		541.3725	44.32	-10.13	34.19	46.00	-11.81	peak
5		801.7863	39.09	-6.49	32.60	46.00	-13.40	peak
6		962.1623	39.07	-4.84	34.23	54.00	-19.77	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

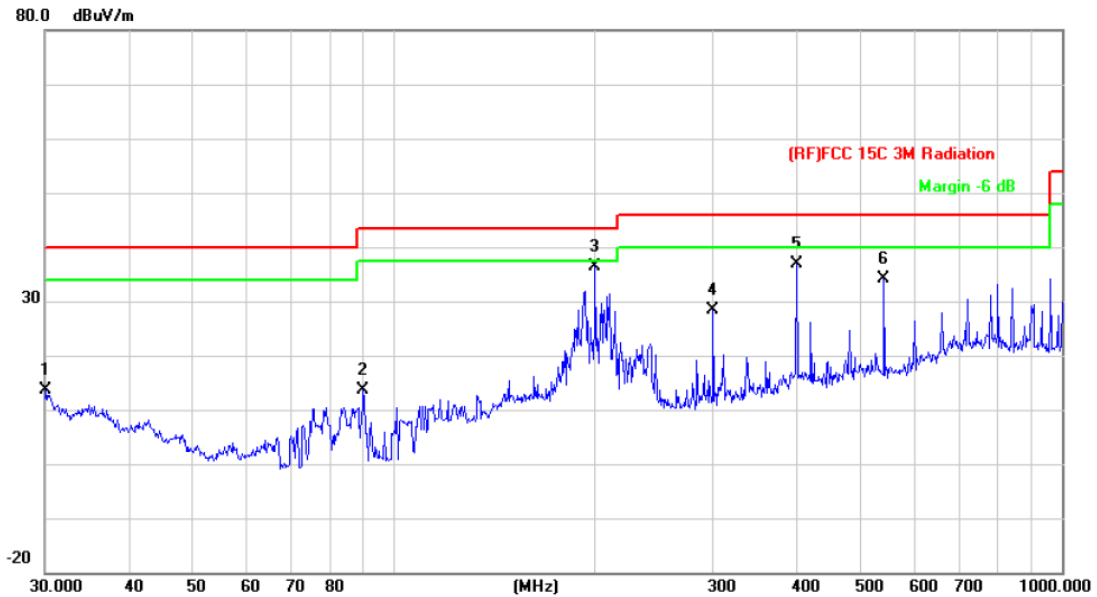


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		193.7728	54.51	-20.72	33.79	43.50	-9.71	peak
2		207.1226	51.99	-20.09	31.90	43.50	-11.60	peak
3	*	400.4319	52.25	-12.80	39.45	46.00	-6.55	peak
4		541.3725	41.96	-10.13	31.83	46.00	-14.17	peak
5		661.1505	40.67	-8.21	32.46	46.00	-13.54	peak
6		721.7259	42.60	-7.10	35.50	46.00	-10.50	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

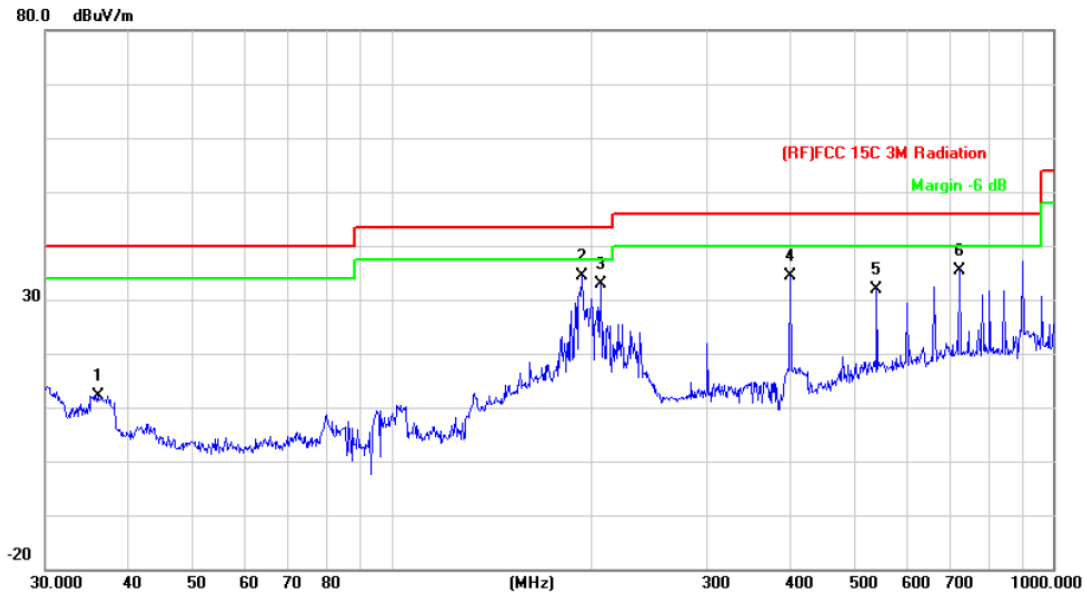


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		30.1051	27.59	-14.03	13.56	40.00	-26.44	peak
2		89.9047	36.44	-22.69	13.75	43.50	-29.75	peak
3	*	199.9856	56.69	-20.39	36.30	43.50	-7.20	peak
4		300.3672	45.52	-17.07	28.45	46.00	-17.55	peak
5		400.4318	49.56	-12.80	36.76	46.00	-9.24	peak
6		541.3721	44.32	-10.13	34.19	46.00	-11.81	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

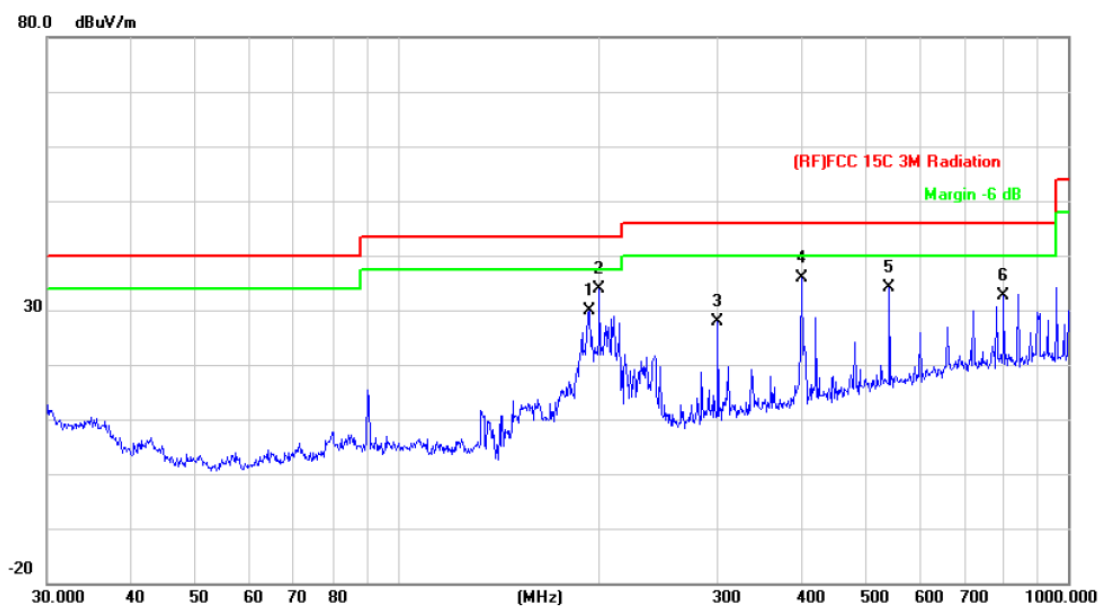


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		36.0007	29.80	-17.67	12.13	40.00	-27.87	peak
2	*	193.7726	55.01	-20.72	34.29	43.50	-9.21	peak
3		207.1226	52.99	-20.09	32.90	43.50	-10.60	peak
4		400.4318	47.25	-12.80	34.45	46.00	-11.55	peak
5		541.3721	41.96	-10.13	31.83	46.00	-14.17	peak
6		721.7259	42.60	-7.10	35.50	46.00	-10.50	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

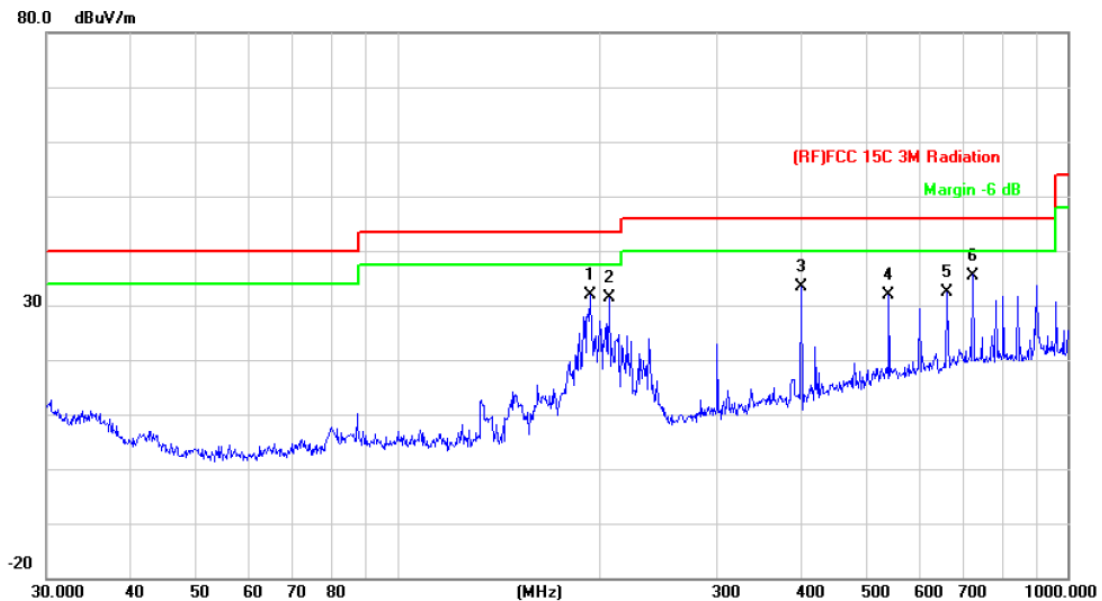


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	193.0945	50.64	-20.75	29.89	43.50	-13.61	peak
2 *	199.9856	54.19	-20.39	33.80	43.50	-9.70	peak
3	300.3672	45.02	-17.07	27.95	46.00	-18.05	peak
4	400.4318	48.56	-12.80	35.76	46.00	-10.24	peak
5	541.3721	44.32	-10.13	34.19	46.00	-11.81	peak
6	801.7862	39.09	-6.49	32.60	46.00	-13.40	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

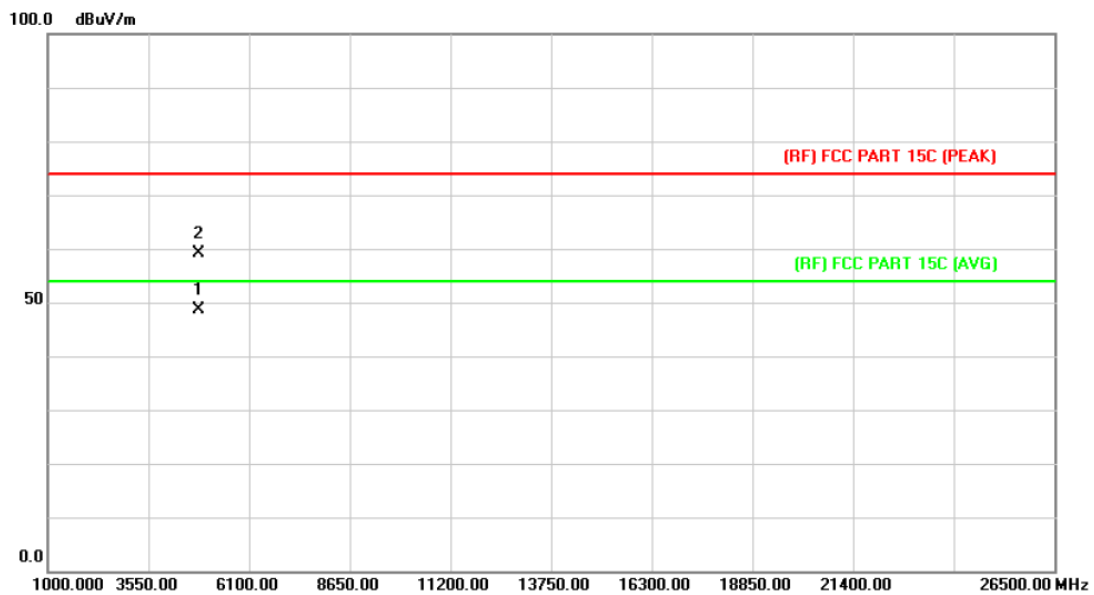


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	193.7726	52.51	-20.72	31.79	43.50	-11.71	peak
2	207.1226	51.49	-20.09	31.40	43.50	-12.10	peak
3	400.4318	46.25	-12.80	33.45	46.00	-12.55	peak
4	541.3721	41.96	-10.13	31.83	46.00	-14.17	peak
5	661.1503	40.67	-8.21	32.46	46.00	-13.54	peak
6 *	721.7259	42.60	-7.10	35.50	46.00	-10.50	peak

*:Maximum data x:Over limit !:over margin

Emission Level= Read Level+ Correct Factor

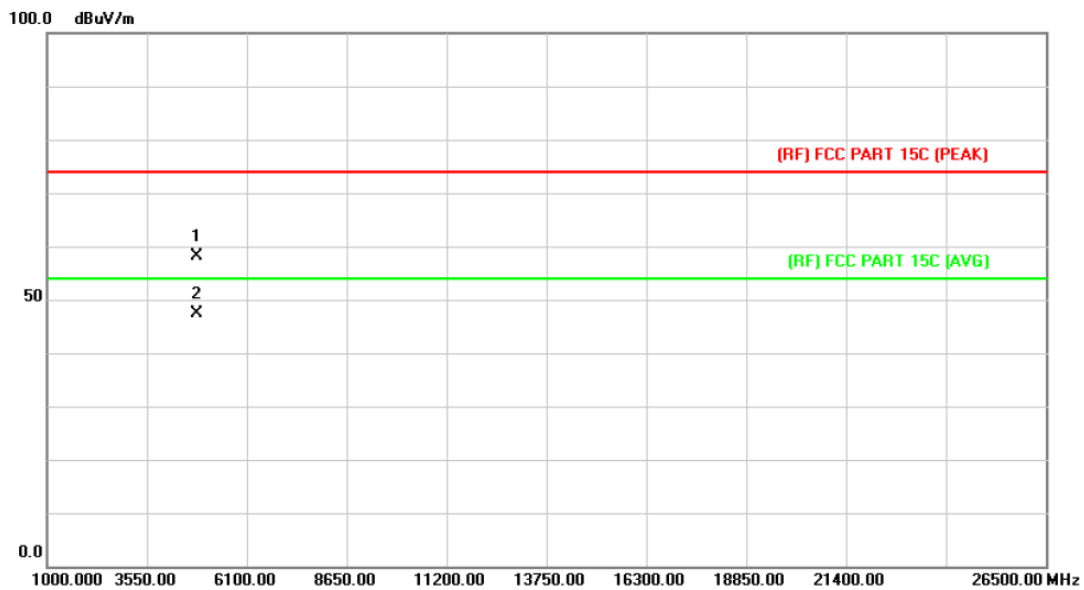
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.684	35.05	13.56	48.61	54.00	-5.39	AVG
2		4823.864	45.68	13.56	59.24	74.00	-14.76	peak

Emission Level= Read Level+ Correct Factor

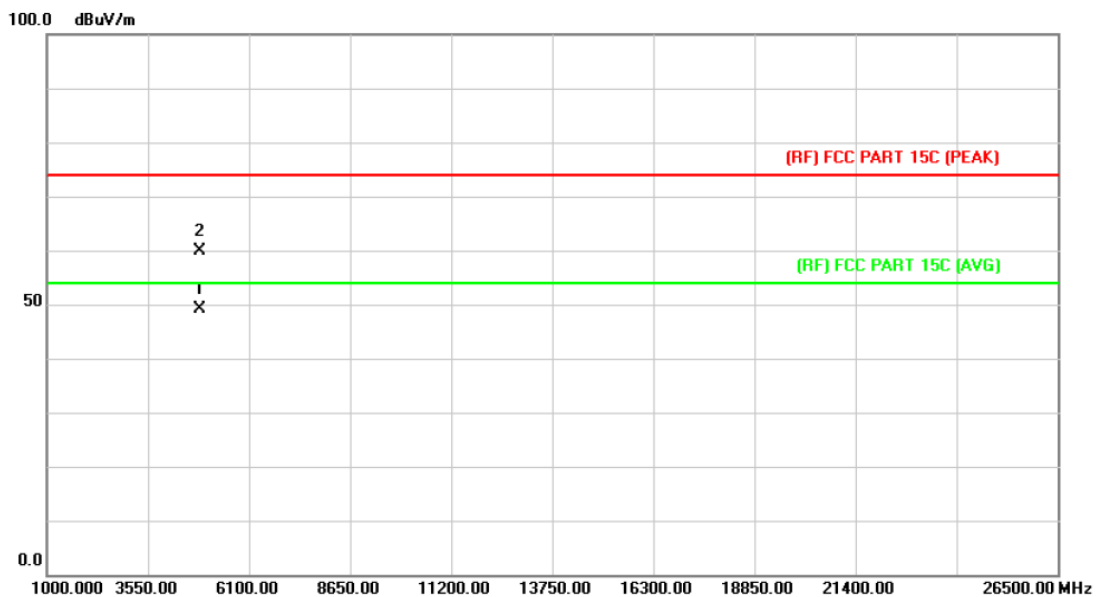
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4823.654	44.56	13.56	58.12	74.00	-15.88	peak
2	*	4824.174	33.75	13.56	47.31	54.00	-6.69	AVG

Emission Level= Read Level+ Correct Factor

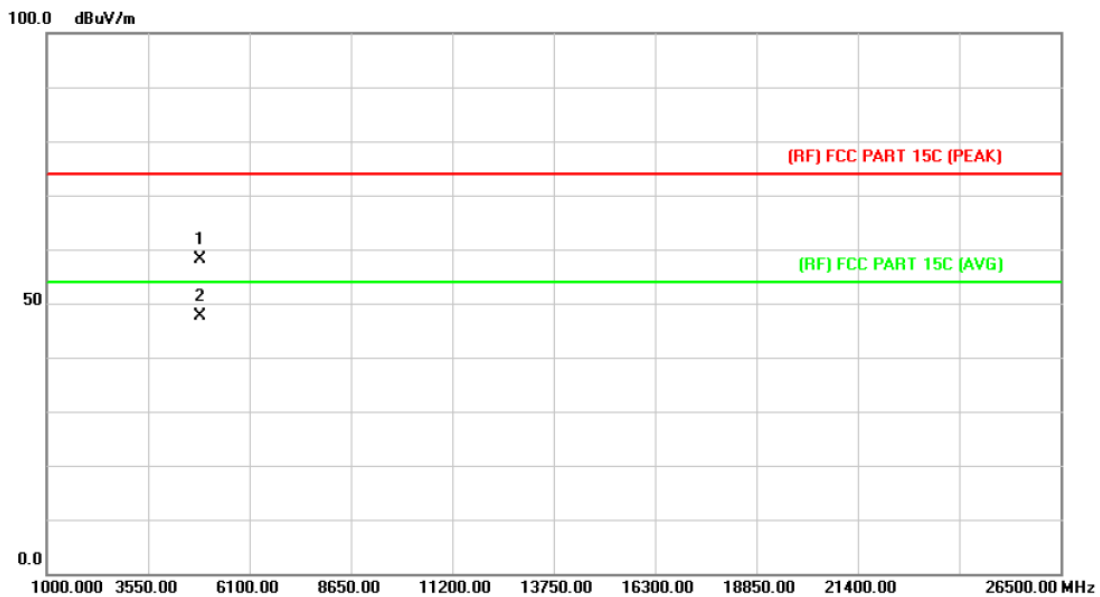
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.367	35.29	13.86	49.15	54.00	-4.85	AVG
2		4874.684	45.98	13.86	59.84	74.00	-14.16	peak

Emission Level= Read Level+ Correct Factor

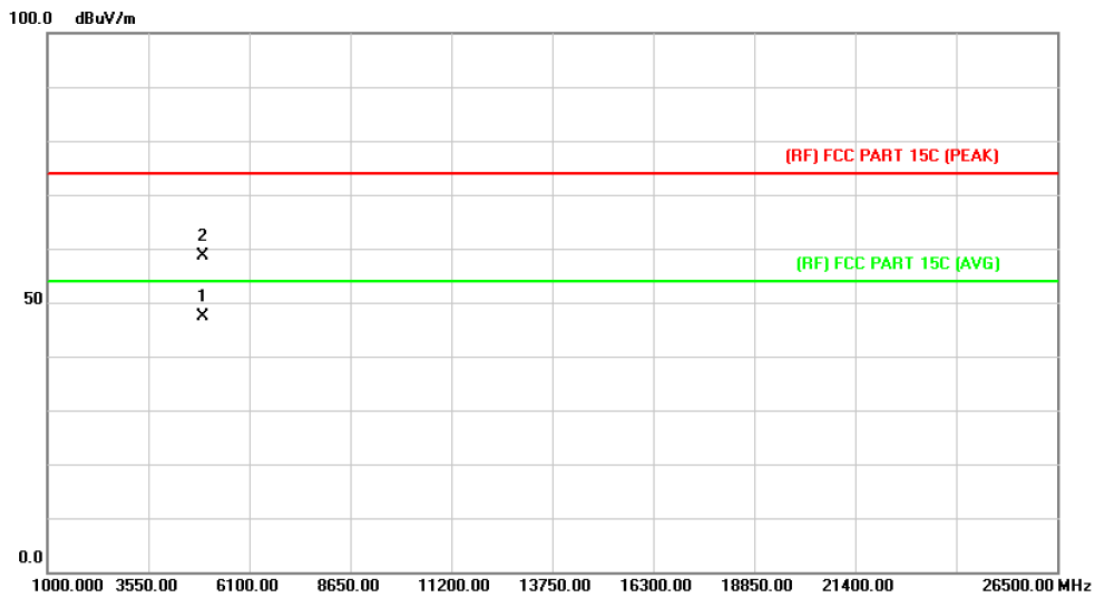
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.621	44.15	13.86	58.01	74.00	-15.99	peak
2	*	4873.647	33.75	13.86	47.61	54.00	-6.39	AVG

Emission Level= Read Level+ Correct Factor

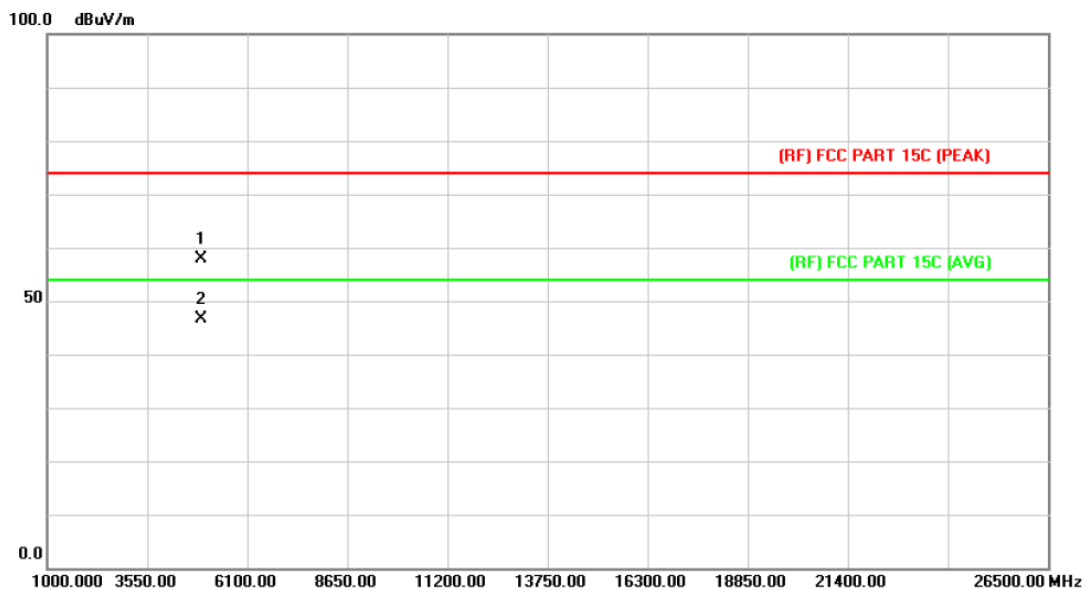
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.478	33.16	14.15	47.31	54.00	-6.69	AVG
2		4924.814	44.39	14.15	58.54	74.00	-15.46	peak

Emission Level= Read Level+ Correct Factor

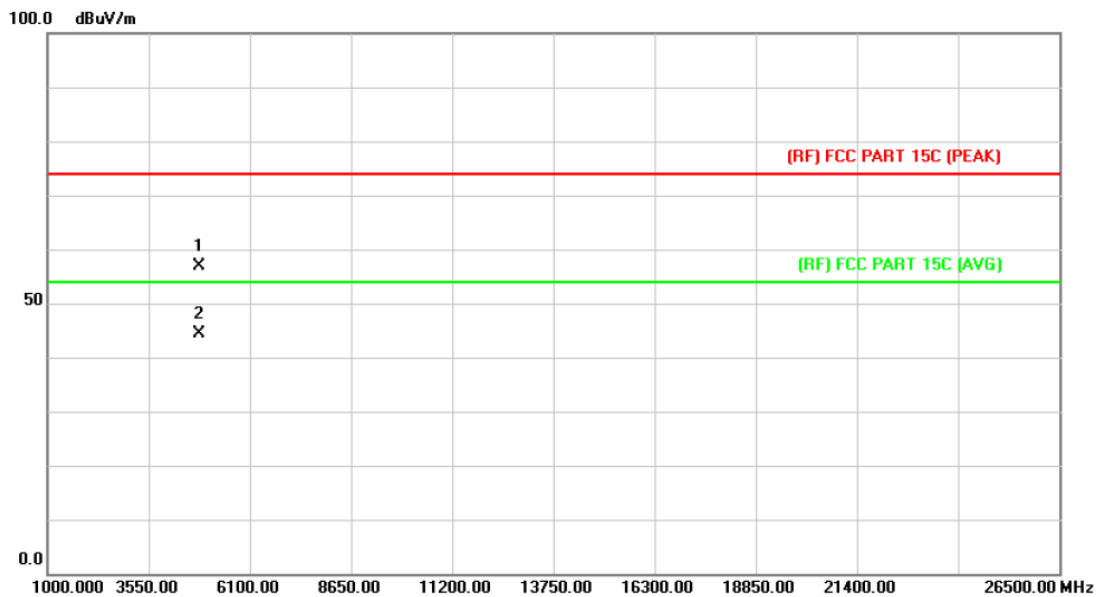
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.354	43.83	14.15	57.98	74.00	-16.02	peak
2	*	4923.824	32.36	14.15	46.51	54.00	-7.49	AVG

Emission Level= Read Level+ Correct Factor

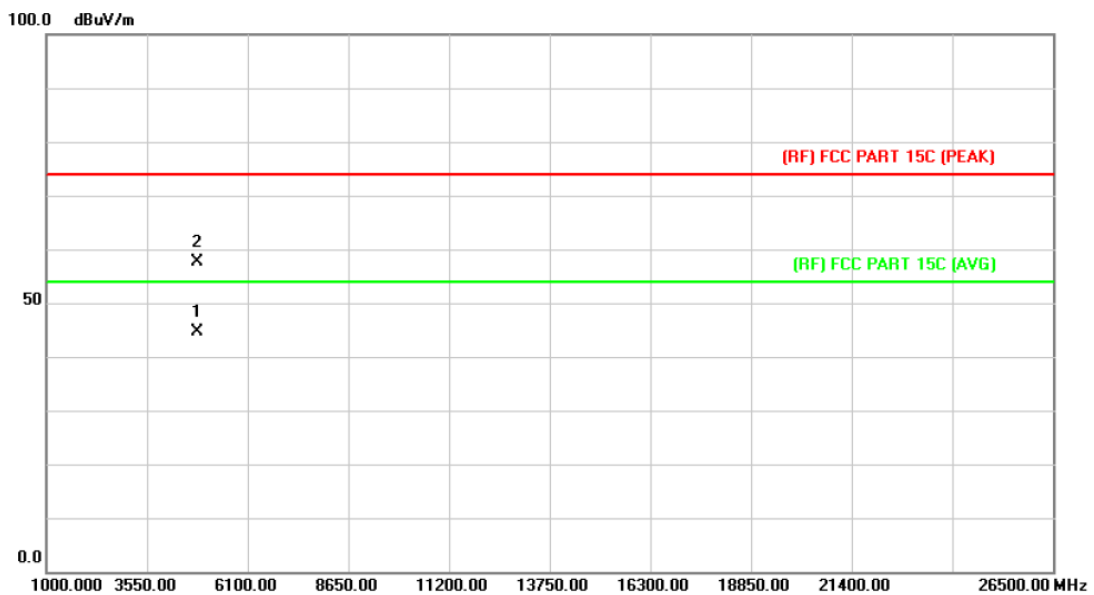
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.641	43.28	13.56	56.84	74.00	-17.16	peak
2	*	4823.687	30.81	13.56	44.37	54.00	-9.63	AVG

Emission Level= Read Level+ Correct Factor

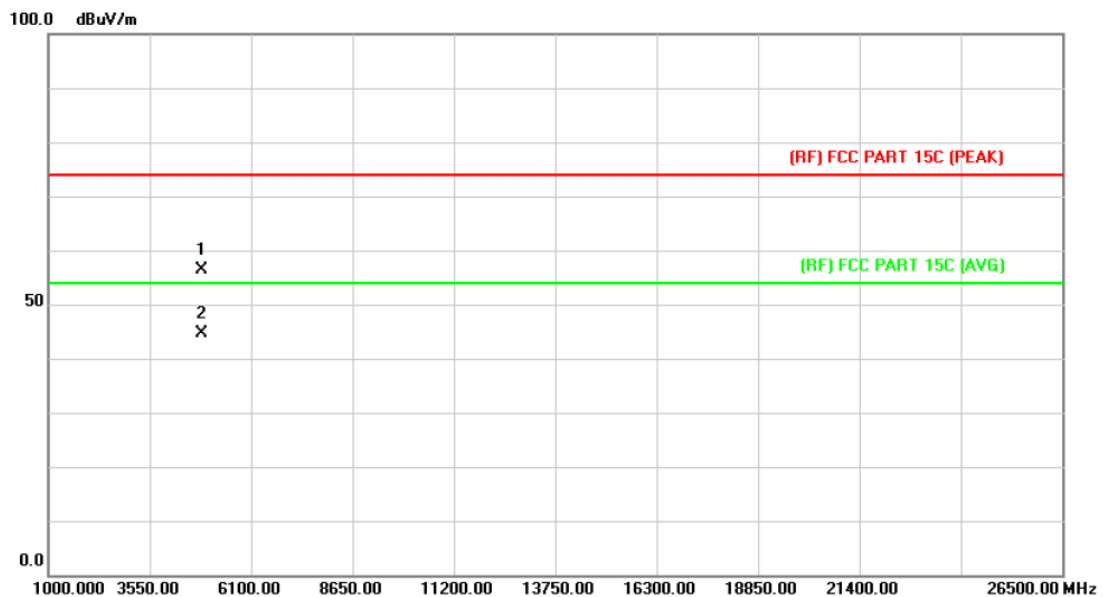
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.351	31.05	13.56	44.61	54.00	-9.39	AVG
2		4823.651	43.95	13.56	57.51	74.00	-16.49	peak

Emission Level= Read Level+ Correct Factor

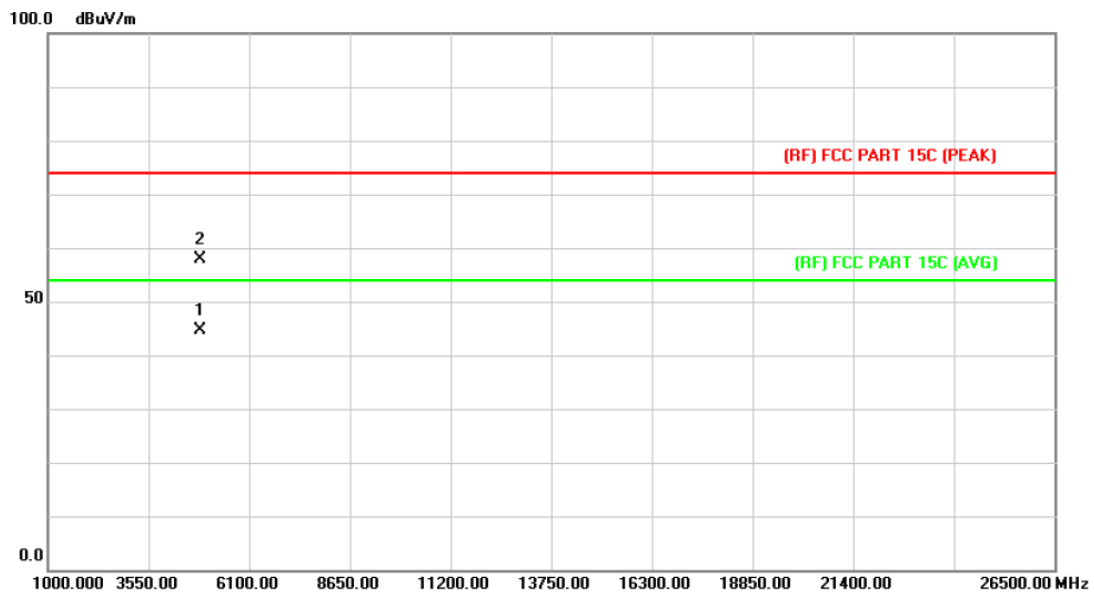
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.637	42.45	13.86	56.31	74.00	-17.69	peak
2	*	4874.741	30.78	13.86	44.64	54.00	-9.36	AVG

Emission Level= Read Level+ Correct Factor

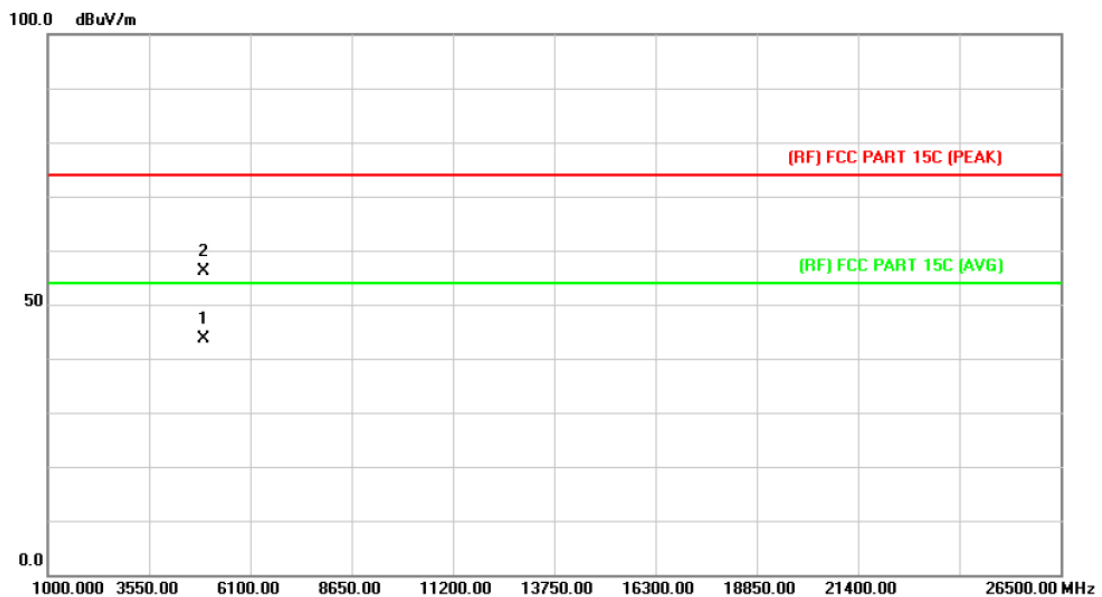
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.657	30.82	13.86	44.68	54.00	-9.32	AVG
2		4873.846	43.95	13.86	57.81	74.00	-16.19	peak

Emission Level= Read Level+ Correct Factor

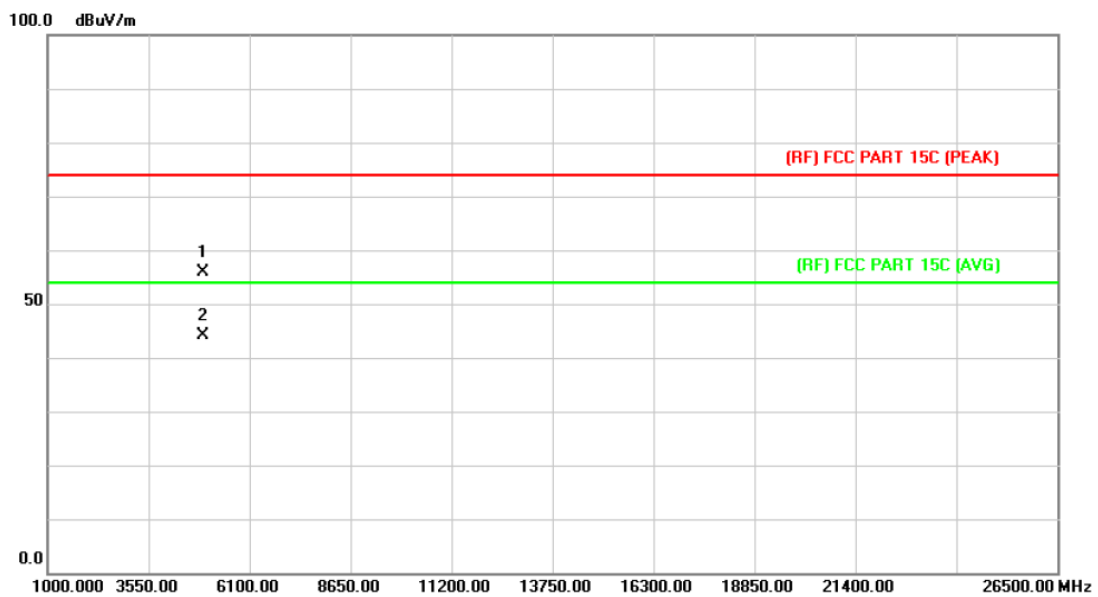
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.248	29.43	14.15	43.58	54.00	-10.42	AVG
2		4923.854	41.86	14.15	56.01	74.00	-17.99	peak

Emission Level= Read Level+ Correct Factor

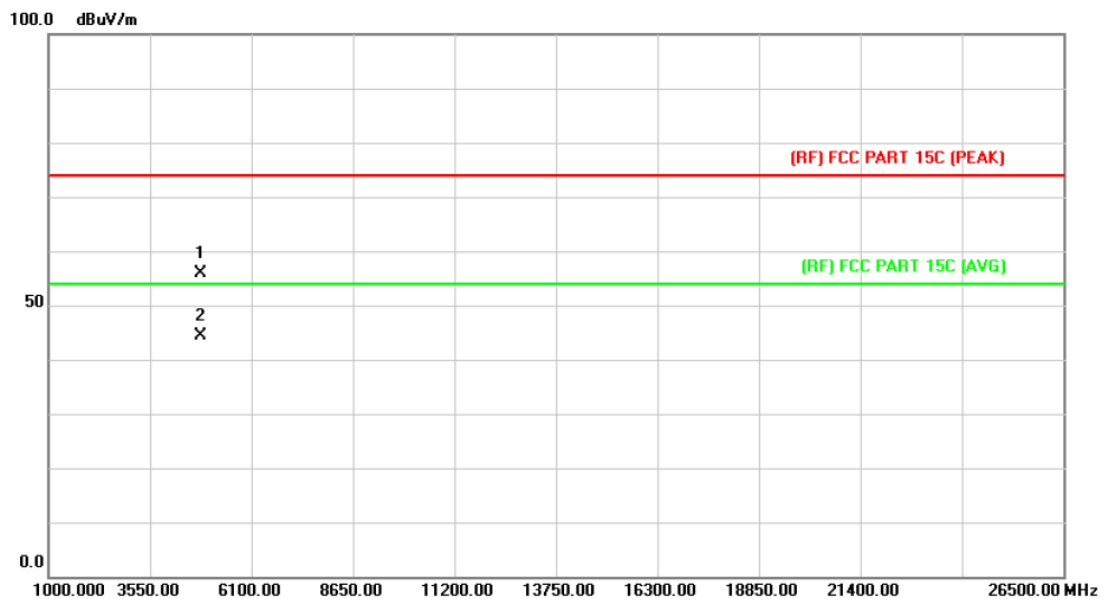
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.617	41.66	14.15	55.81	74.00	-18.19	peak
2	*	4924.861	30.06	14.15	44.21	54.00	-9.79	AVG

Emission Level= Read Level+ Correct Factor

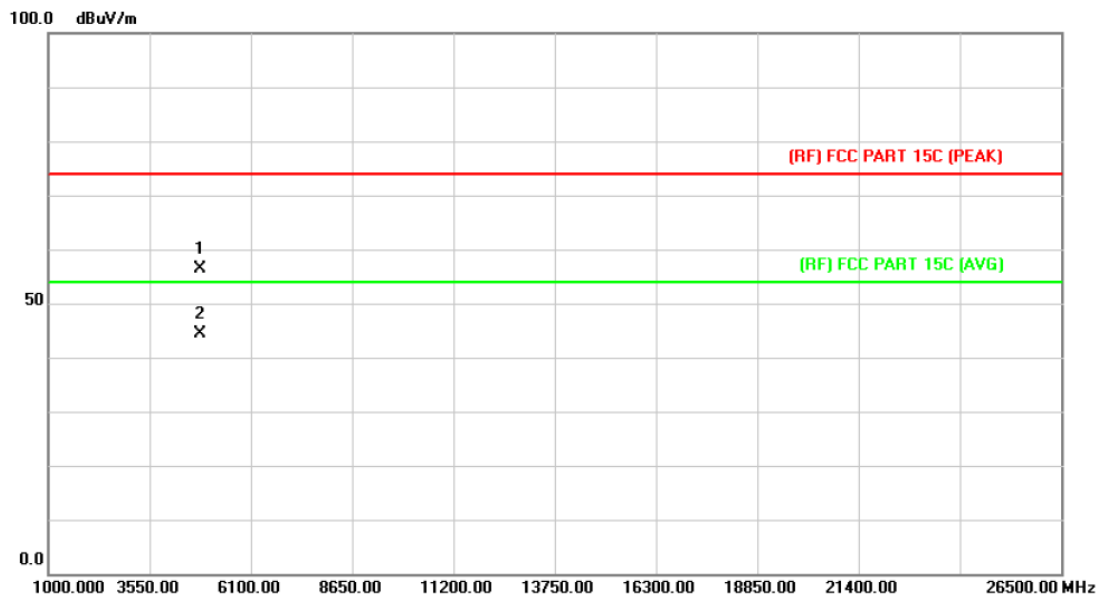
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.614	42.31	13.56	55.87	74.00	-18.13	peak
2	*	4823.811	30.75	13.56	44.31	54.00	-9.69	AVG

Emission Level= Read Level+ Correct Factor

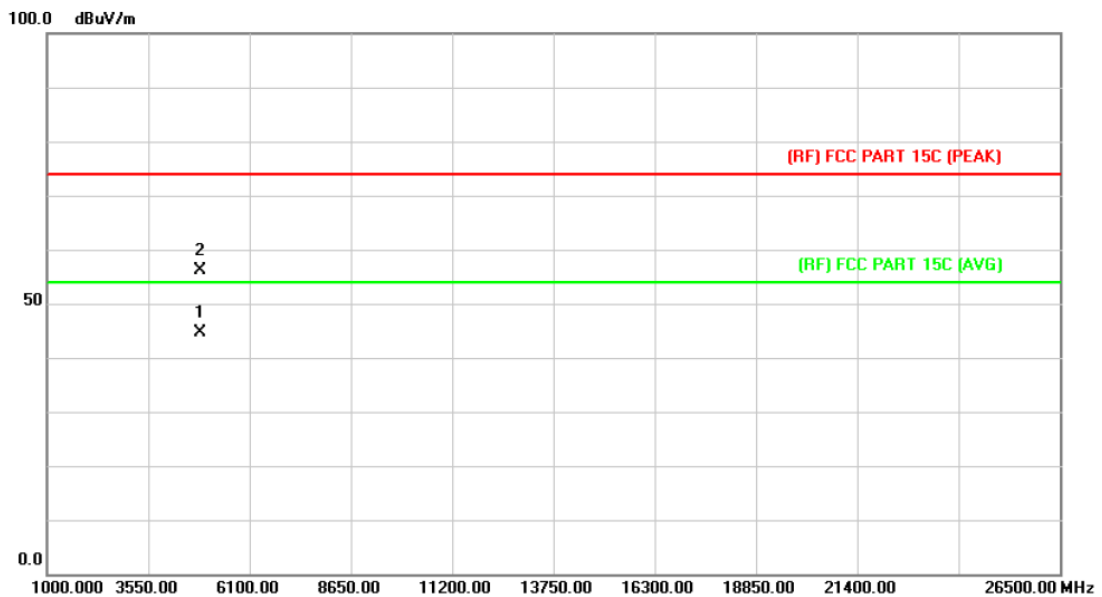
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4823.325	42.85	13.56	56.41	74.00	-17.59	peak
2	*	4823.952	30.78	13.56	44.34	54.00	-9.66	AVG

Emission Level= Read Level+ Correct Factor

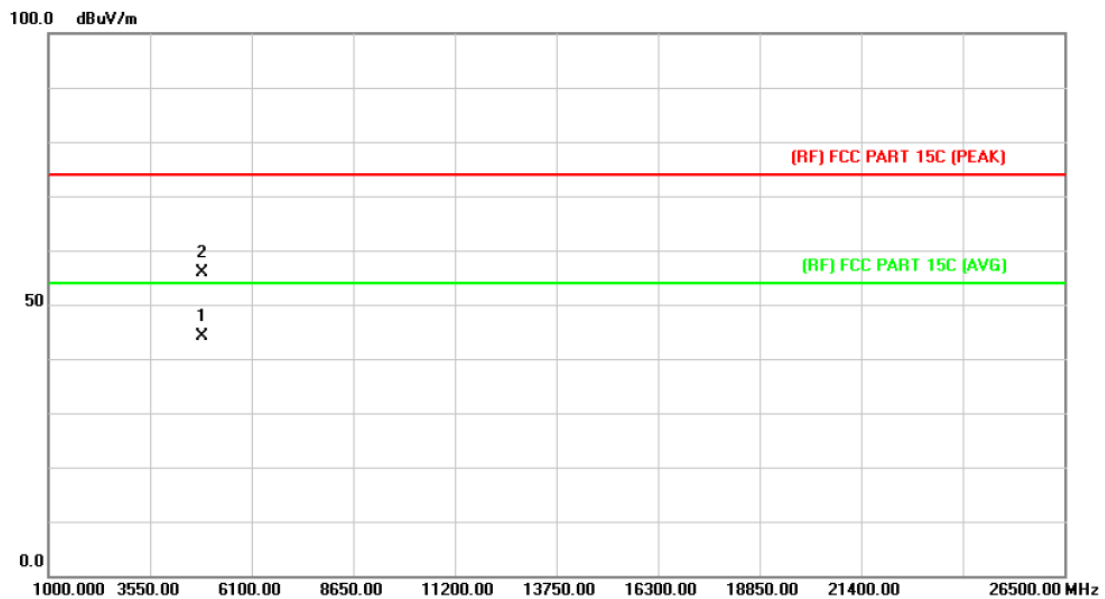
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.652	30.83	13.86	44.69	54.00	-9.31	AVG
2		4874.841	42.28	13.86	56.14	74.00	-17.86	peak

Emission Level= Read Level+ Correct Factor

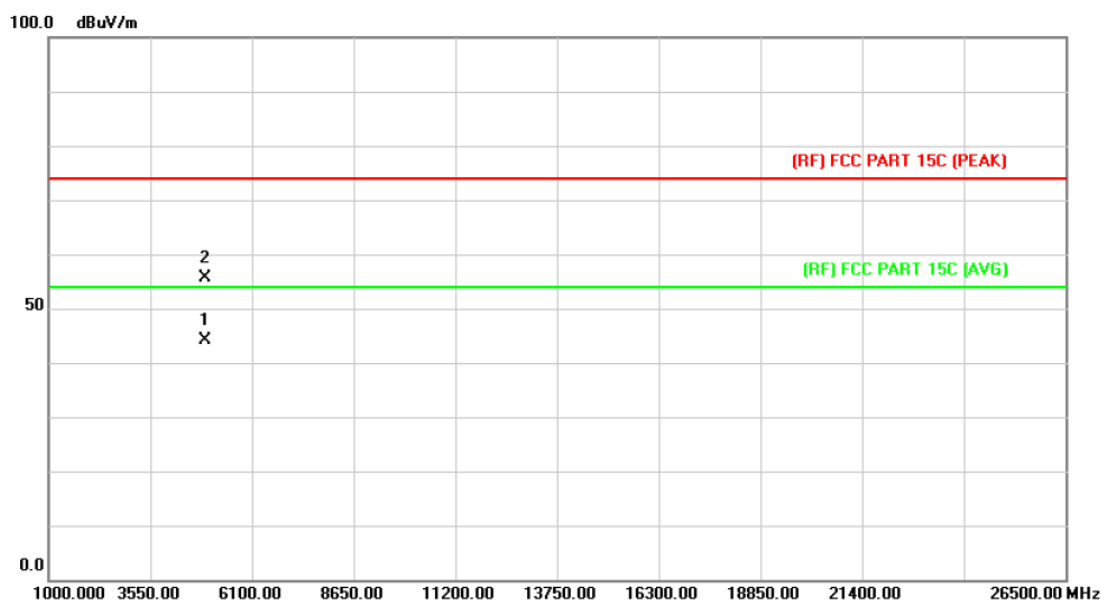
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.576	30.23	13.86	44.09	54.00	-9.91	AVG
2		4874.332	42.01	13.86	55.87	74.00	-18.13	peak

Emission Level= Read Level+ Correct Factor

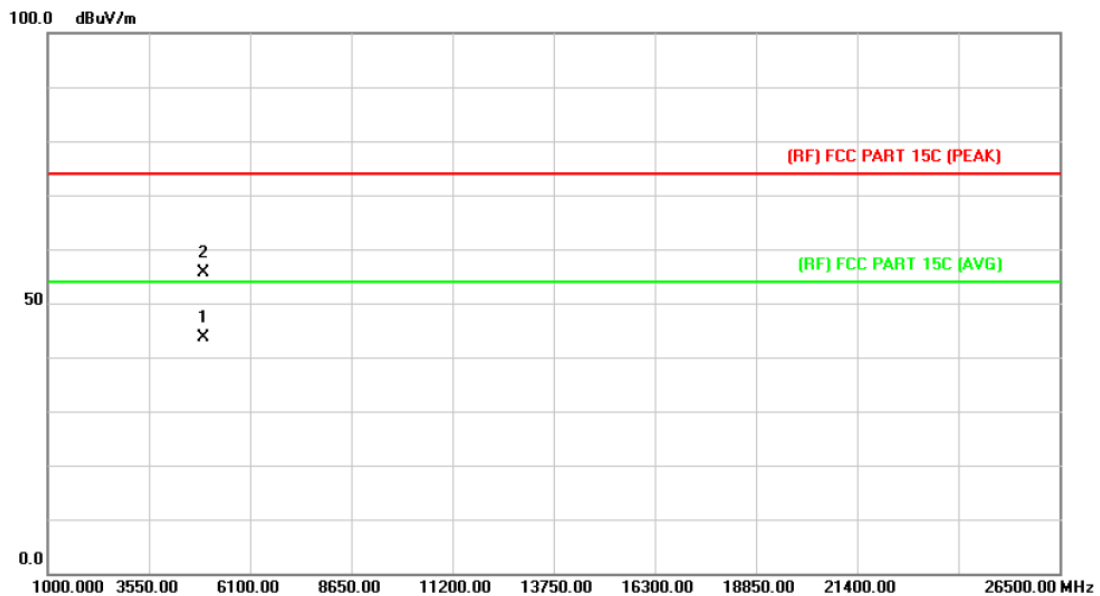
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.657	29.98	14.15	44.13	54.00	-9.87	AVG
2		4923.798	41.53	14.15	55.68	74.00	-18.32	peak

Emission Level= Read Level+ Correct Factor

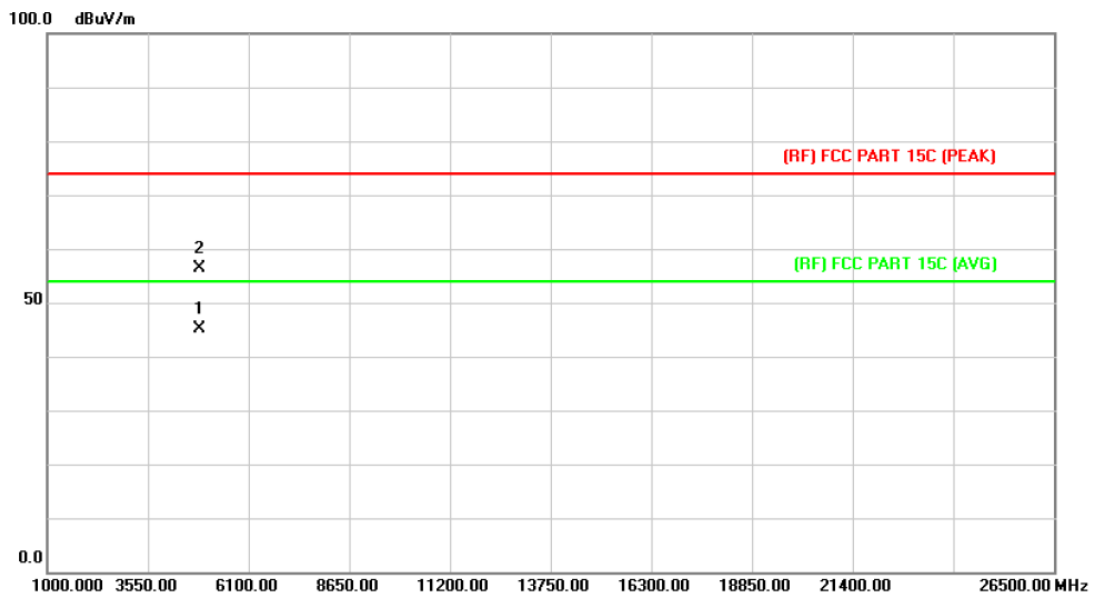
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4923.315	29.50	14.15	43.65	54.00	-10.35	AVG
2		4923.541	41.42	14.15	55.57	74.00	-18.43	peak

Emission Level= Read Level+ Correct Factor

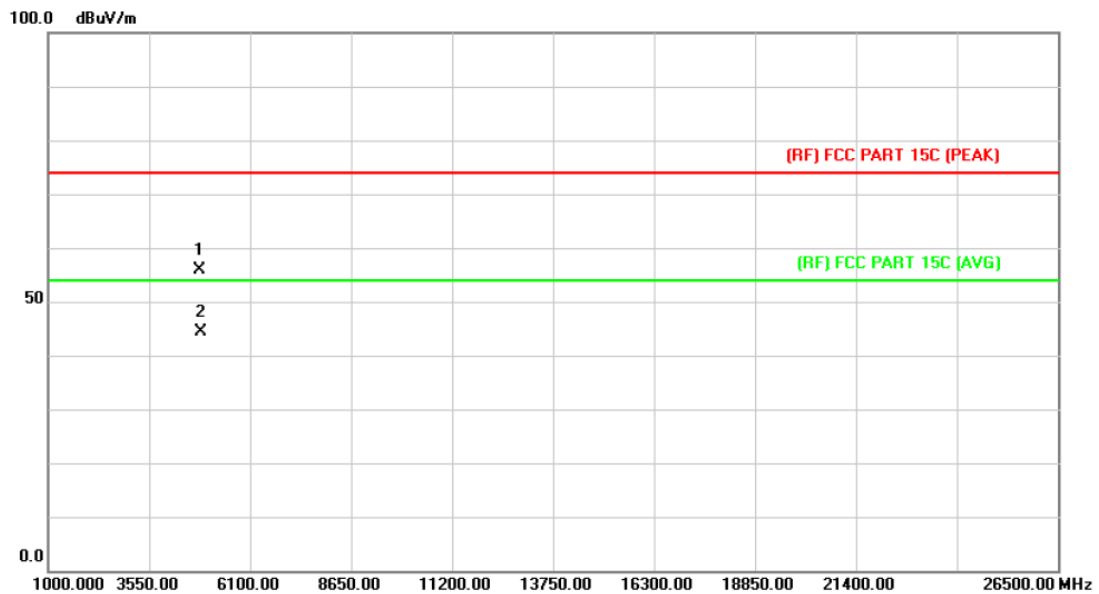
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.617	31.44	13.68	45.12	54.00	-8.88	AVG
2		4843.634	42.63	13.68	56.31	74.00	-17.69	peak

Emission Level= Read Level+ Correct Factor

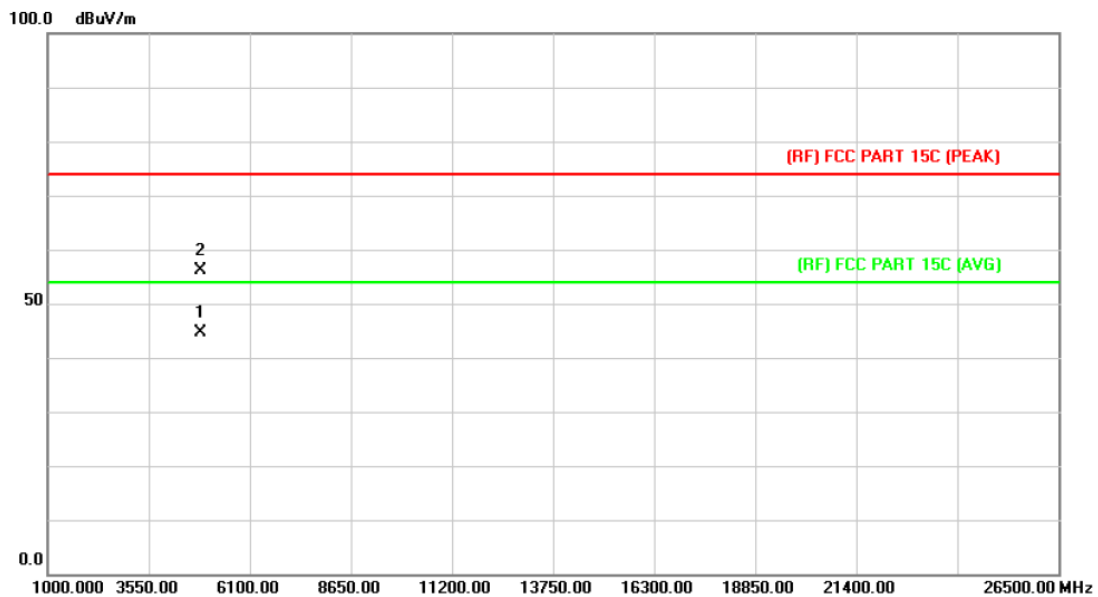
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4843.617	42.31	13.56	55.87	74.00	-18.13	peak
2	*	4843.948	30.69	13.68	44.37	54.00	-9.63	AVG

Emission Level= Read Level+ Correct Factor

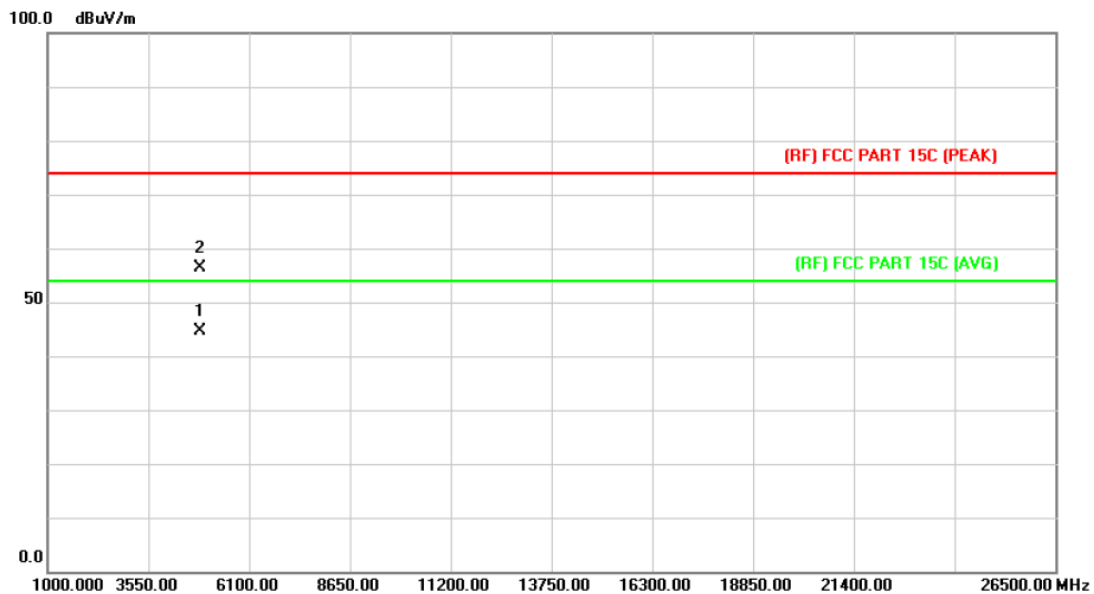
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4873.671	30.65	13.86	44.51	54.00	-9.49	AVG
2		4874.591	42.38	13.86	56.24	74.00	-17.76	peak

Emission Level= Read Level+ Correct Factor

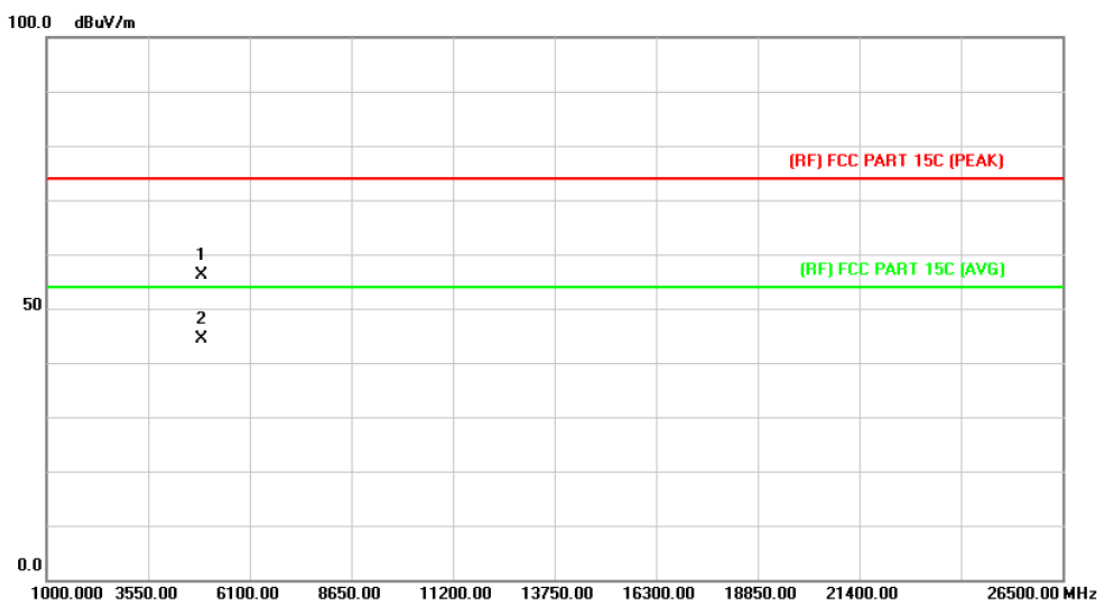
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4874.565	30.65	13.86	44.51	54.00	-9.49	AVG
2		4874.814	42.61	13.86	56.47	74.00	-17.53	peak

Emission Level= Read Level+ Correct Factor

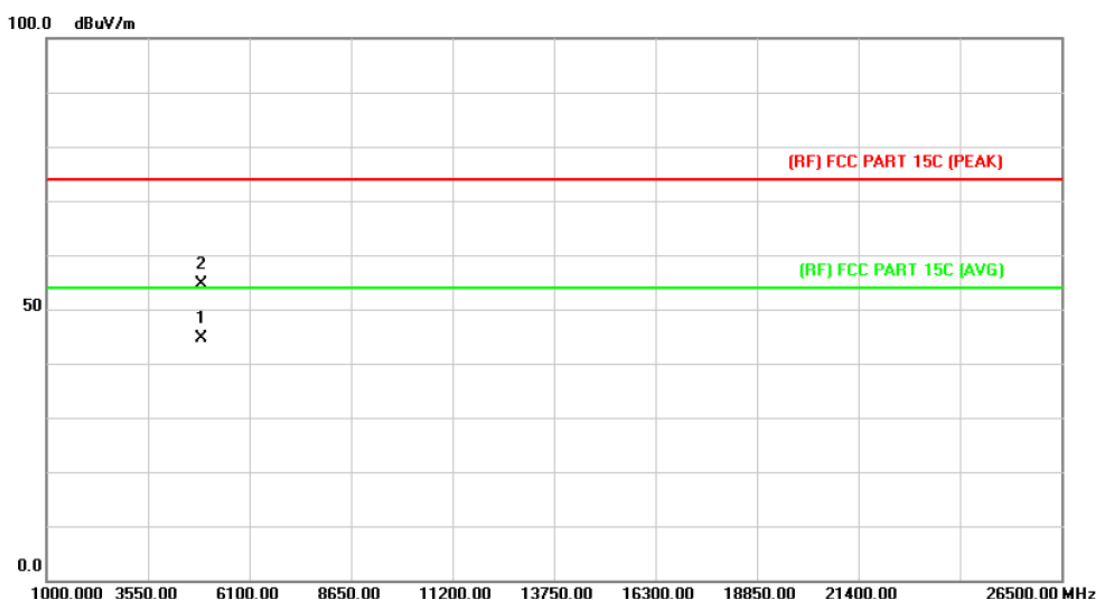
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4903.546	42.21	14.03	56.24	74.00	-17.76	peak
2	*	4903.641	30.35	14.03	44.38	54.00	-9.62	AVG

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.324	30.59	14.03	44.62	54.00	-9.38	AVG
2		4903.982	40.59	14.03	54.62	74.00	-19.38	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

6.1 Test Standard and Limit

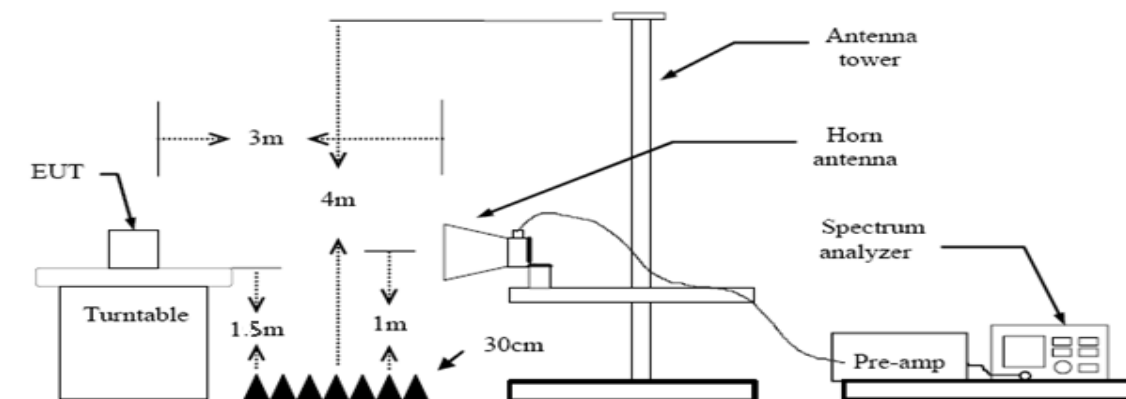
5.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

5.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit

Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.

- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

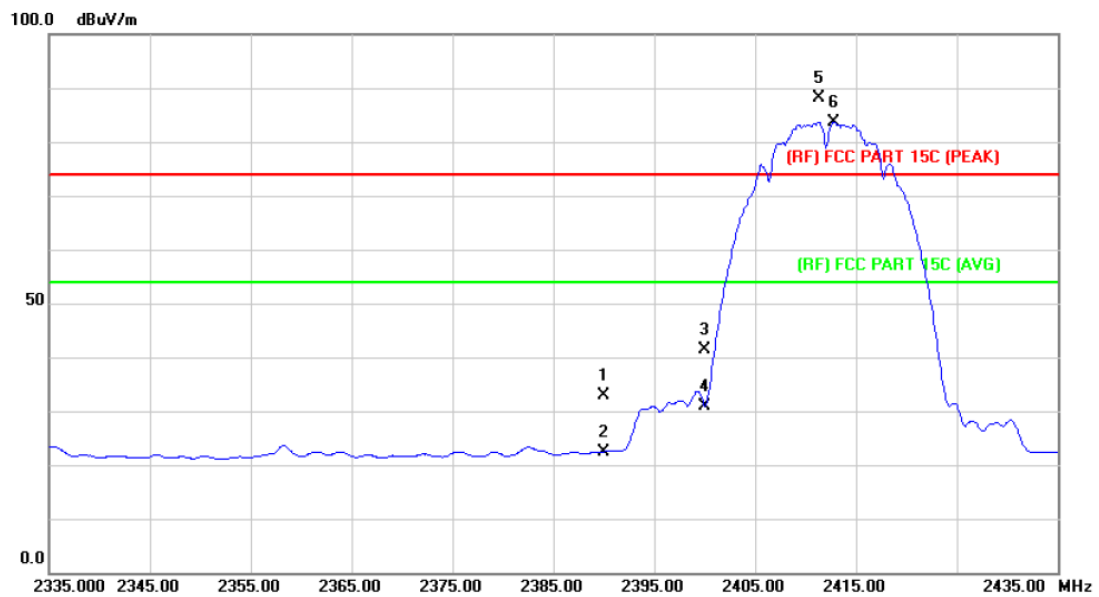
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

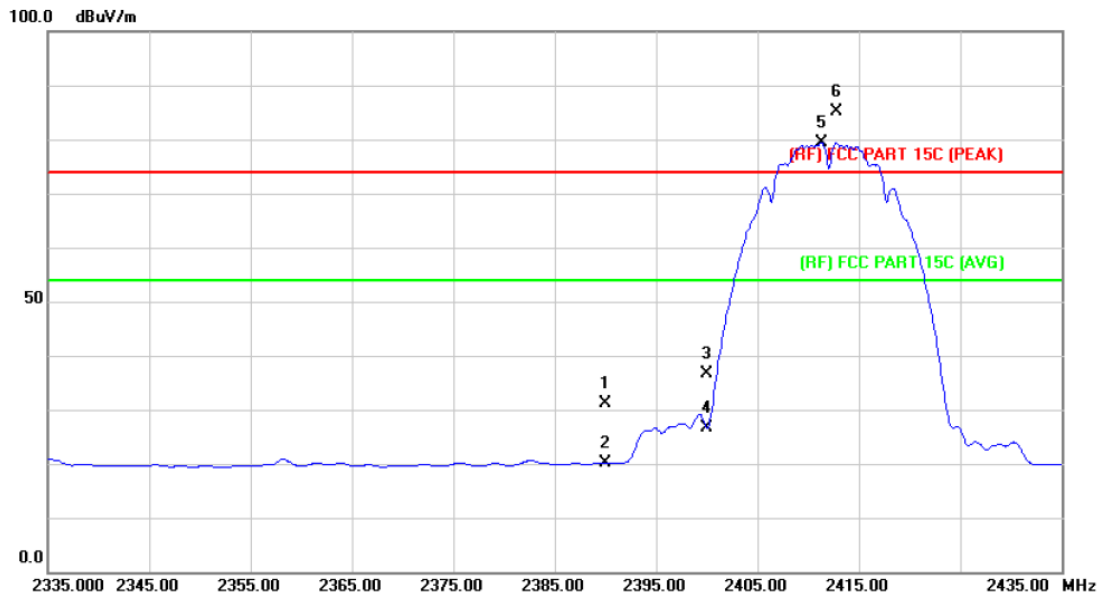
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	32.01	0.77	32.78	74.00	-41.22	peak
2		2390.000	21.68	0.77	22.45	54.00	-31.55	AVG
3		2400.000	40.50	0.81	41.31	74.00	-32.69	peak
4		2400.000	30.16	0.81	30.97	54.00	-23.03	AVG
5	X	2411.300	87.31	0.86	88.17	Fundamental Frequency		peak
6	*	2412.800	82.83	0.86	83.69	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

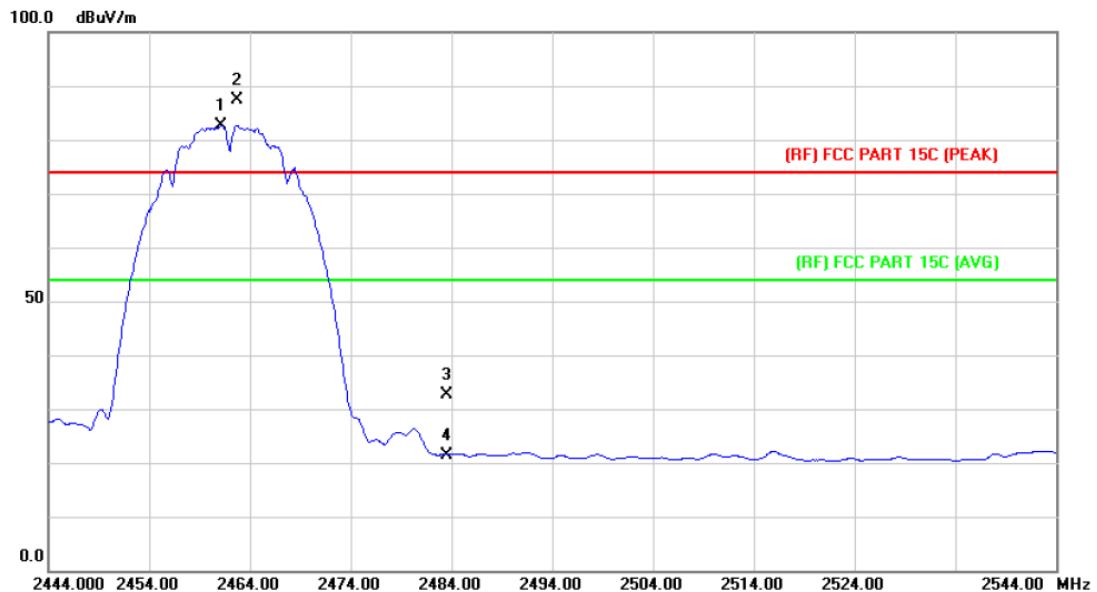
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	30.37	0.77	31.14	74.00	-42.86	peak
2		2390.000	19.38	0.77	20.15	54.00	-33.85	AVG
3		2400.000	35.70	0.81	36.51	74.00	-37.49	peak
4		2400.000	25.81	0.81	26.62	54.00	-27.38	AVG
5	*	2411.300	78.51	0.86	79.37	Fundamental Frequency		AVG
6	X	2412.800	84.28	0.86	85.14	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

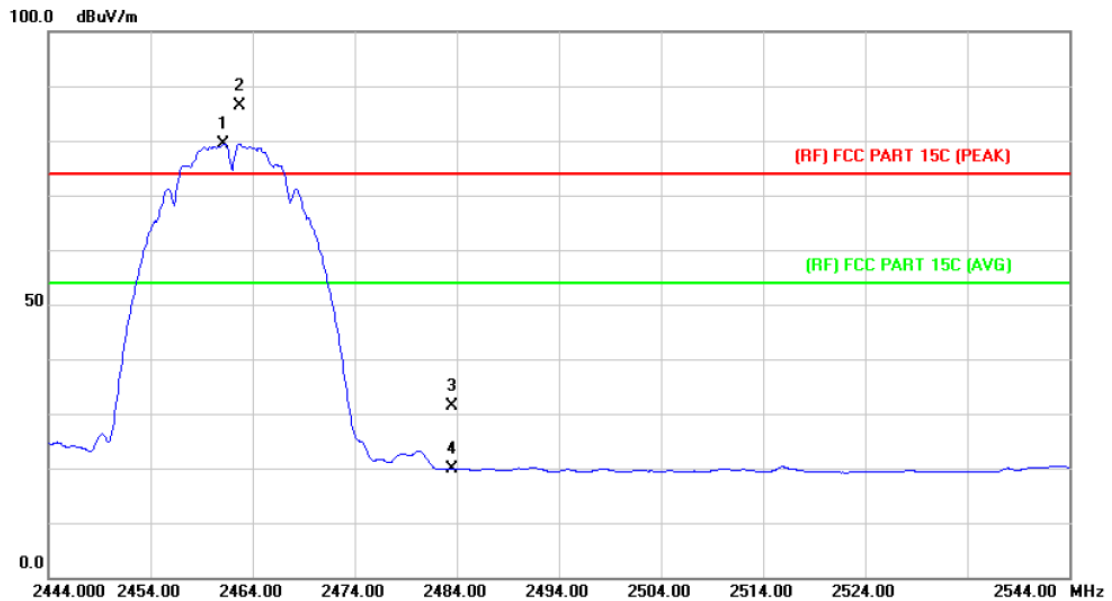
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1	*	2461.200	81.62	1.07	82.69	Fundamental Frequency	AVG
2	X	2462.700	86.25	1.08	87.33	Fundamental Frequency	peak
3		2483.500	31.37	1.17	32.54	74.00	-41.46 peak
4		2483.500	20.29	1.17	21.46	54.00	-32.54 AVG

Emission Level= Read Level+ Correct Factor

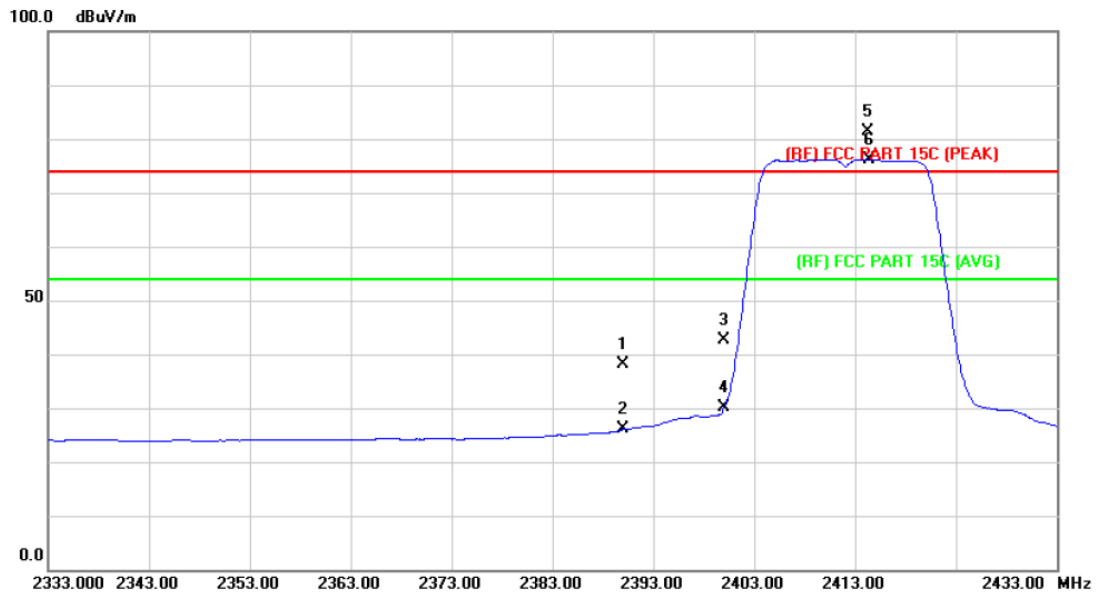
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2461.200	78.36	1.07	79.43	Fundamental Frequency		AVG
2	X	2462.700	85.26	1.08	86.34	Fundamental Frequency		peak
3		2483.500	30.15	1.17	31.32	74.00	-42.68	peak
4		2483.500	18.80	1.17	19.97	54.00	-34.03	AVG

Emission Level= Read Level+ Correct Factor

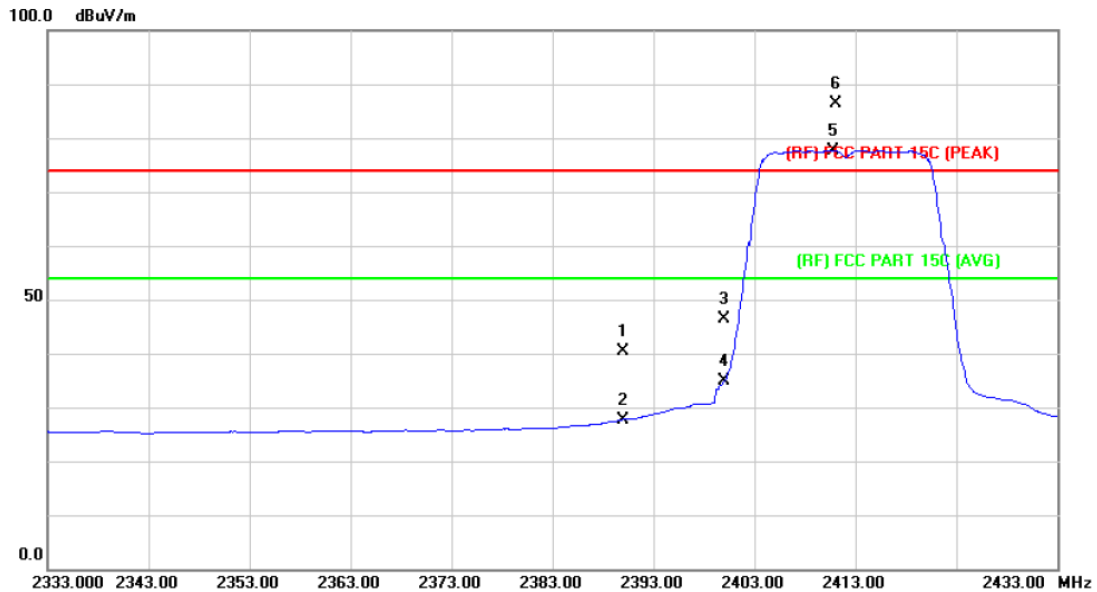
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	37.39	0.77	38.16	74.00	-35.84 peak
2		2390.000	25.35	0.77	26.12	54.00	-27.88 AVG
3		2400.000	41.85	0.81	42.66	74.00	-31.34 peak
4		2400.000	29.32	0.81	30.13	54.00	-23.87 AVG
5	X	2414.300	80.51	0.88	81.39	Fundamental Frequency	peak
6	*	2414.400	75.32	0.88	76.20	Fundamental Frequency	AVG

Emission Level= Read Level+ Correct Factor

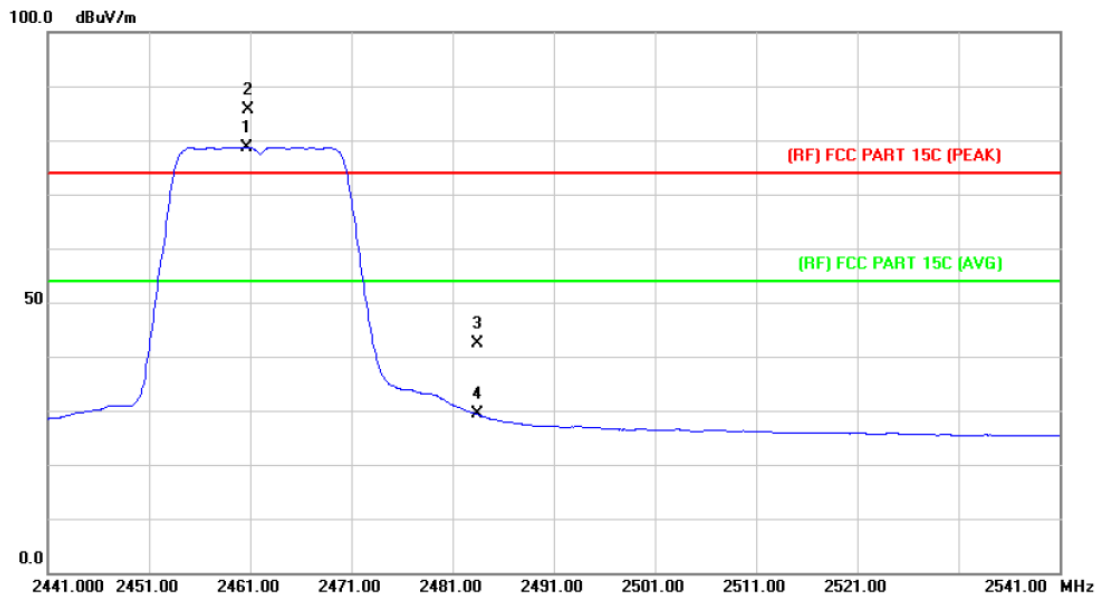
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	39.66	0.77	40.43	74.00	-33.57 peak
2		2390.000	26.95	0.77	27.72	54.00	-26.28 AVG
3		2400.000	45.47	0.81	46.28	74.00	-27.72 peak
4		2400.000	33.97	0.81	34.78	54.00	-19.22 AVG
5	*	2410.800	76.83	0.86	77.69	Fundamental Frequency	AVG
6	X	2411.100	85.52	0.86	86.38	Fundamental Frequency	peak

Emission Level= Read Level+ Correct Factor

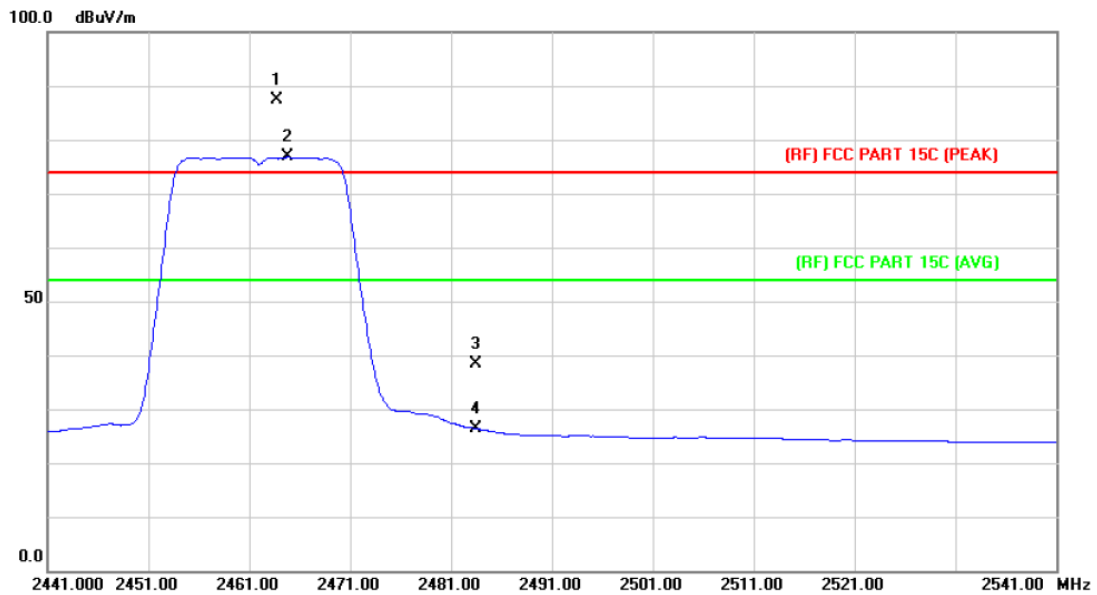
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2460.700	77.65	1.06	78.71	Fundamental Frequency		AVG
2	X	2460.800	84.55	1.06	85.61	Fundamental Frequency		peak
3		2483.500	41.10	1.17	42.27	74.00	-31.73	peak
4		2483.500	28.11	1.17	29.28	54.00	-24.72	AVG

Emission Level= Read Level+ Correct Factor

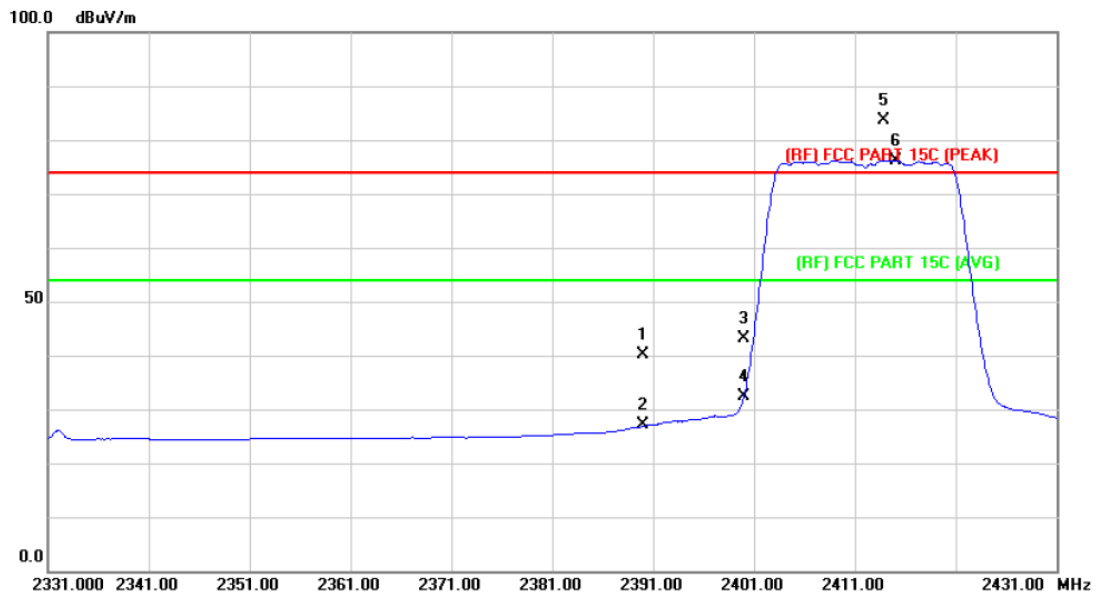
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2463.700	86.40	1.08	87.48	Fundamental Frequency		peak
2	*	2464.800	75.67	1.09	76.76	Fundamental Frequency		AVG
3		2483.500	37.11	1.17	38.28	74.00	-35.72	peak
4		2483.500	25.14	1.17	26.31	54.00	-27.69	AVG

Emission Level= Read Level+ Correct Factor

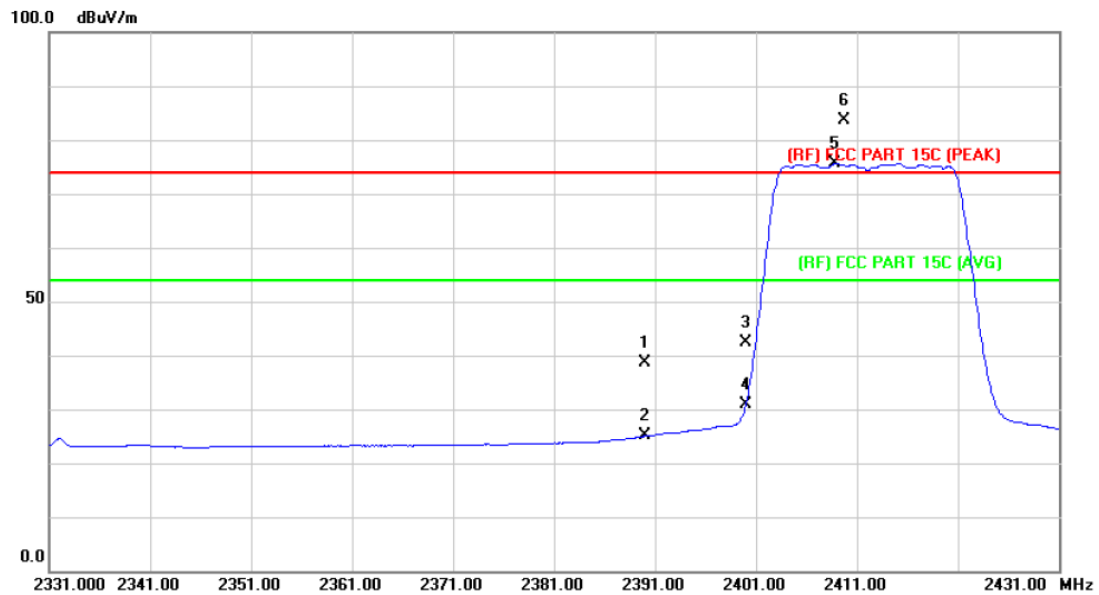
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	39.47	0.77	40.24	74.00	-33.76	peak
2		2390.000	26.35	0.77	27.12	54.00	-26.88	AVG
3		2400.000	42.34	0.81	43.15	74.00	-30.85	peak
4		2400.000	31.57	0.81	32.38	54.00	-21.62	AVG
5	X	2413.800	82.69	0.86	83.55	Fundamental Frequency		peak
6	*	2415.100	75.25	0.88	76.13	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

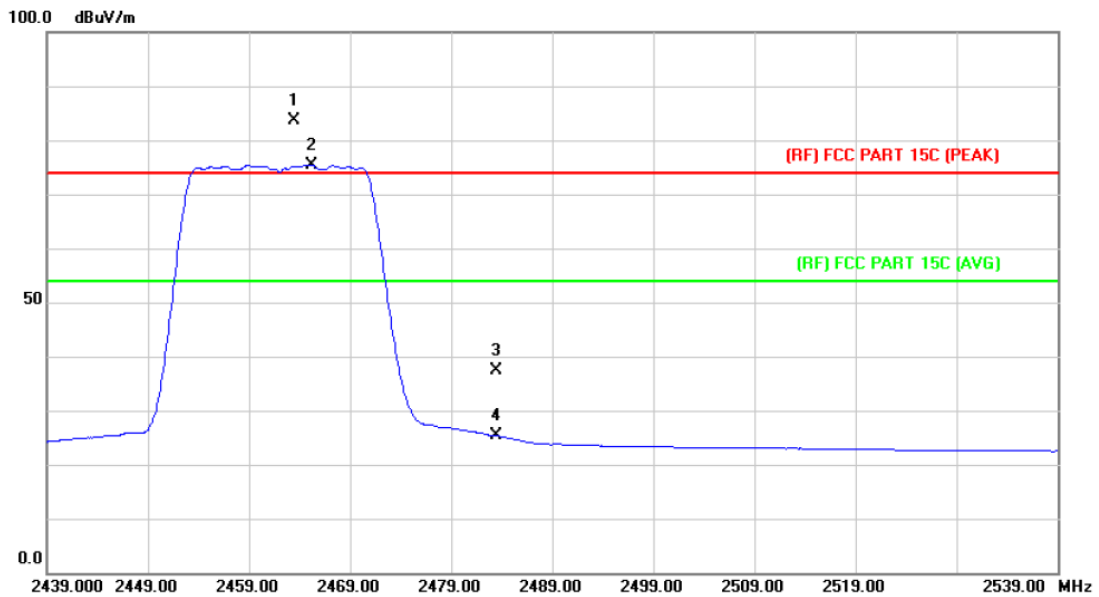
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	37.98	0.77	38.75	74.00	-35.25	peak
2		2390.000	24.37	0.77	25.14	54.00	-28.86	AVG
3		2400.000	41.65	0.81	42.46	74.00	-31.54	peak
4		2400.000	30.13	0.81	30.94	54.00	-23.06	AVG
5	*	2408.800	74.74	0.85	75.59	Fundamental Frequency		AVG
6	X	2409.700	82.68	0.85	83.53	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

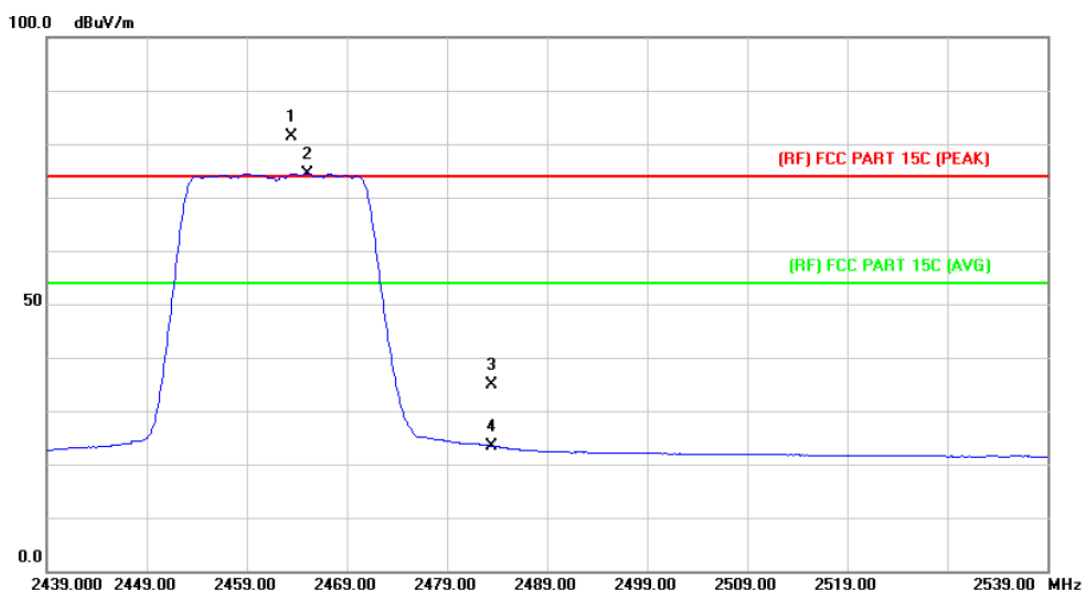
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2463.500	82.56	1.08	83.64	Fundamental Frequency		peak
2	*	2465.200	74.33	1.09	75.42	Fundamental Frequency		AVG
3		2483.500	36.25	1.17	37.42	74.00	-36.58	peak
4		2483.500	24.17	1.17	25.34	54.00	-28.66	AVG

Emission Level= Read Level+ Correct Factor

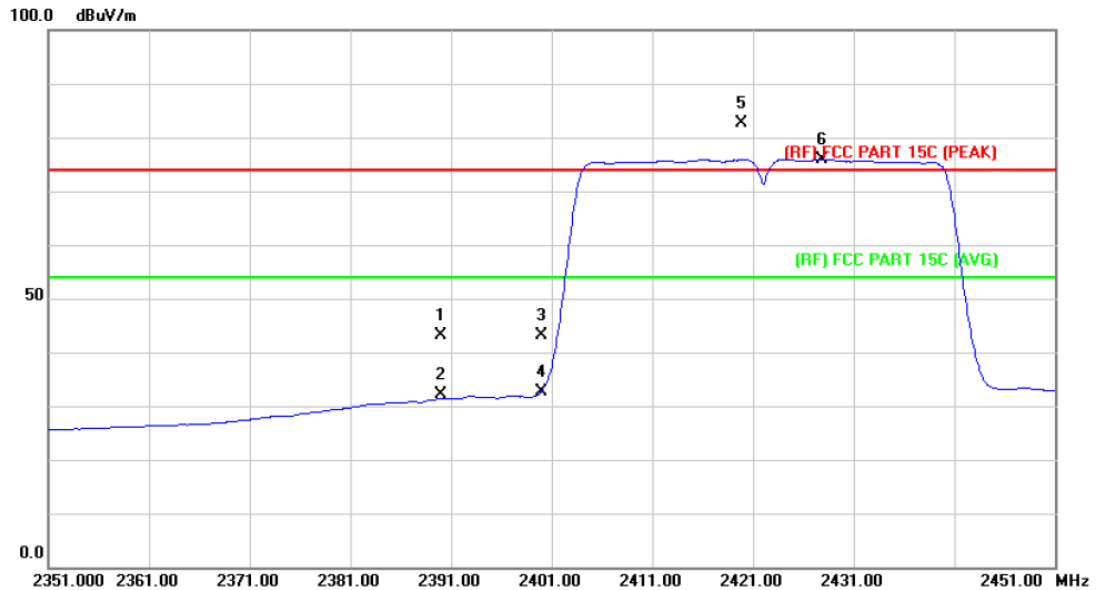
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2463.500	80.25	1.08	81.33	Fundamental Frequency		peak
2	*	2465.100	73.36	1.09	74.45	Fundamental Frequency		AVG
3		2483.500	33.74	1.17	34.91	74.00	-39.09	peak
4		2483.500	22.26	1.17	23.43	54.00	-30.57	AVG

Emission Level= Read Level+ Correct Factor

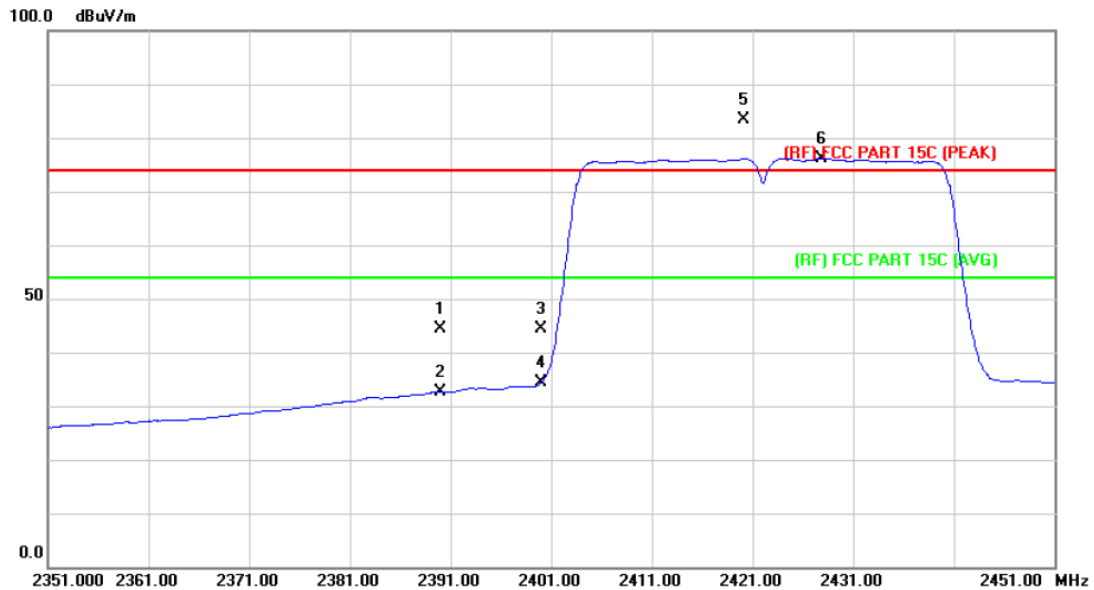
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	42.42	0.77	43.19	74.00	-30.81 peak
2		2390.000	31.24	0.77	32.01	54.00	-21.99 AVG
3		2400.000	42.40	0.81	43.21	74.00	-30.79 peak
4		2400.000	31.93	0.81	32.74	54.00	-21.26 AVG
5	X	2419.900	81.78	0.89	82.67	Fundamental Frequency	peak
6	*	2427.800	74.98	0.94	75.92	Fundamental Frequency	AVG

Emission Level= Read Level+ Correct Factor

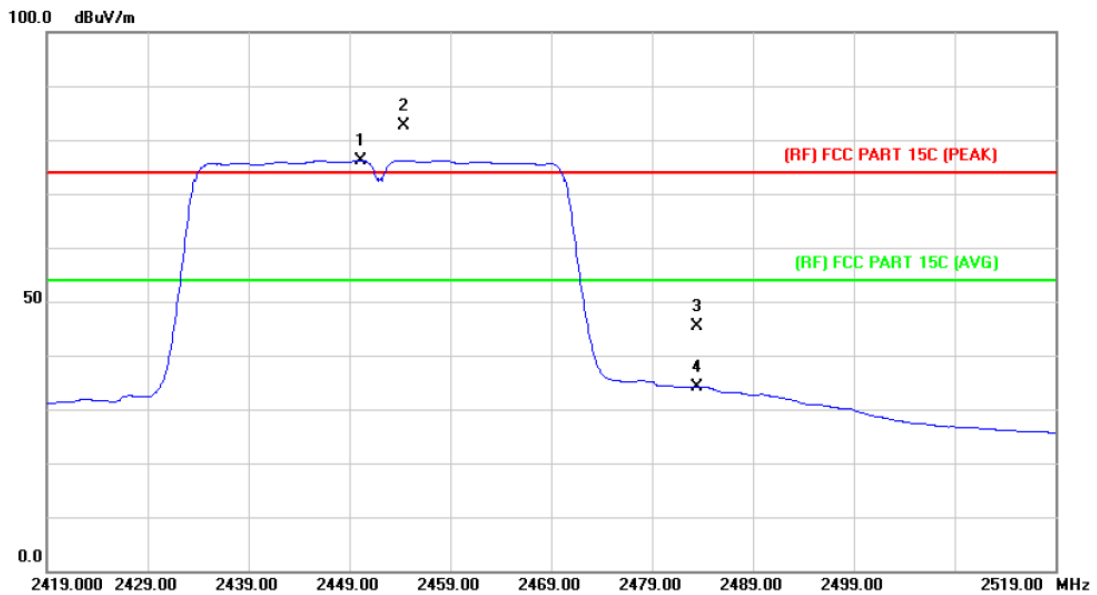
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	43.71	0.77	44.48	74.00	-29.52	peak
2		2390.000	31.80	0.77	32.57	54.00	-21.43	AVG
3		2400.000	43.57	0.81	44.38	74.00	-29.62	peak
4		2400.000	33.67	0.81	34.48	54.00	-19.52	AVG
5	X	2420.200	82.60	0.89	83.49	Fundamental Frequency		peak
6	*	2427.800	75.16	0.94	76.10	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

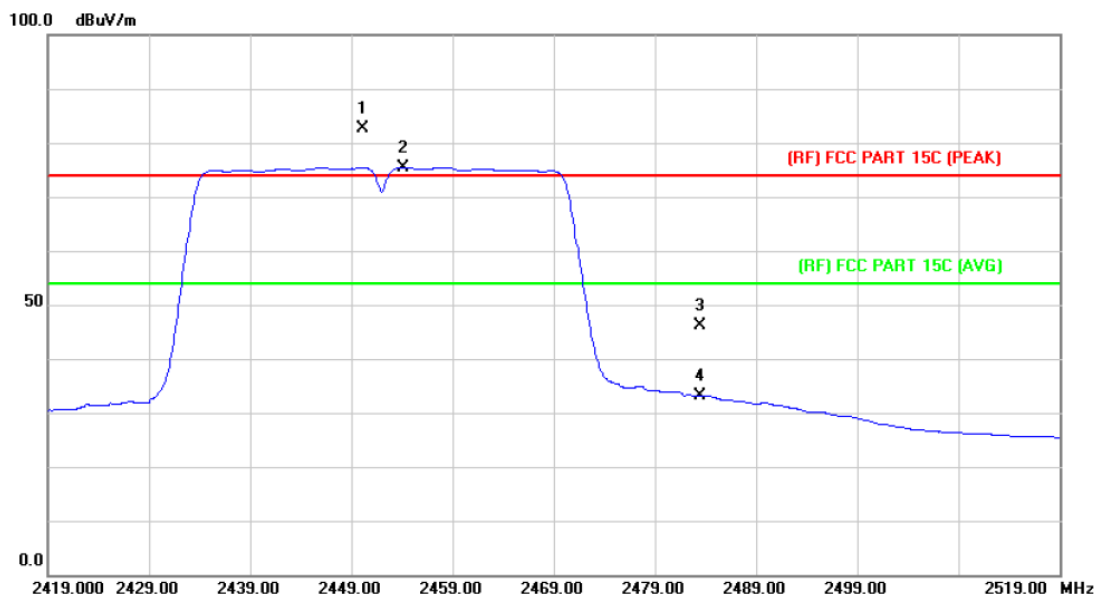
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2450.100	75.19	1.02	76.21	Fundamental Frequency		AVG
2	X	2454.400	81.46	1.05	82.51	Fundamental Frequency		peak
3		2483.500	44.20	1.17	45.37	74.00	-28.63	peak
4		2483.500	33.02	1.17	34.19	54.00	-19.81	AVG

Emission Level= Read Level+ Correct Factor

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

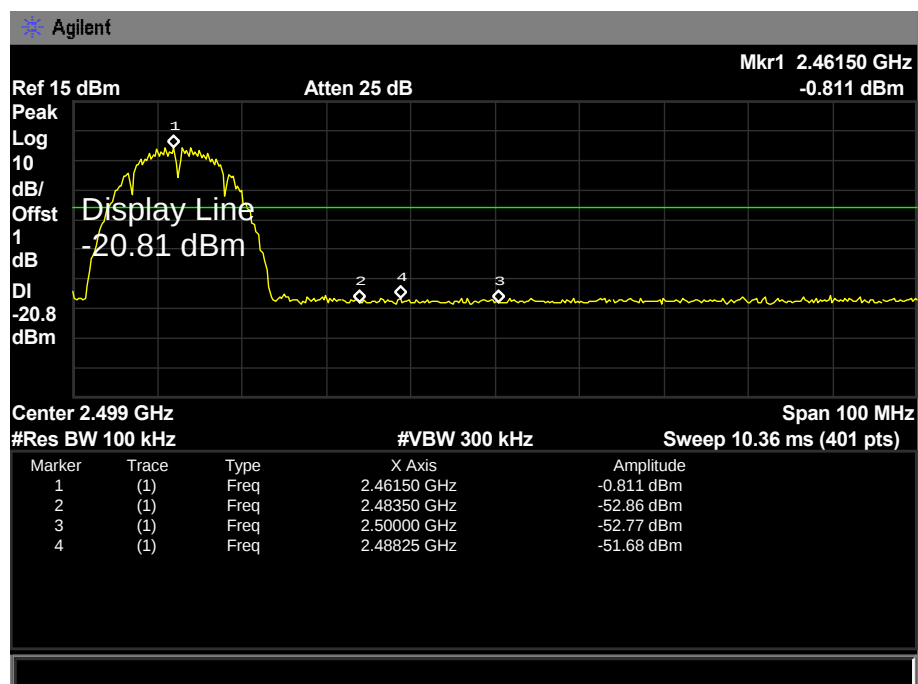
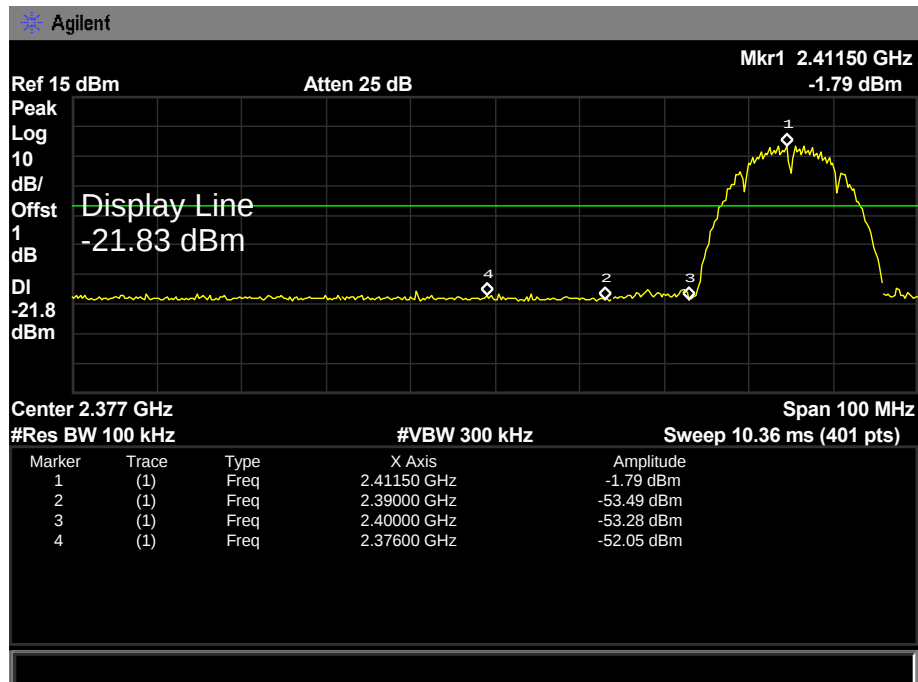


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2450.100	81.57	1.02	82.59	Fundamental Frequency		peak
2	*	2454.200	74.43	1.04	75.47	Fundamental Frequency		AVG
3		2483.500	45.08	1.17	46.25	74.00	-27.75	peak
4		2483.500	32.06	1.17	33.23	54.00	-20.77	AVG

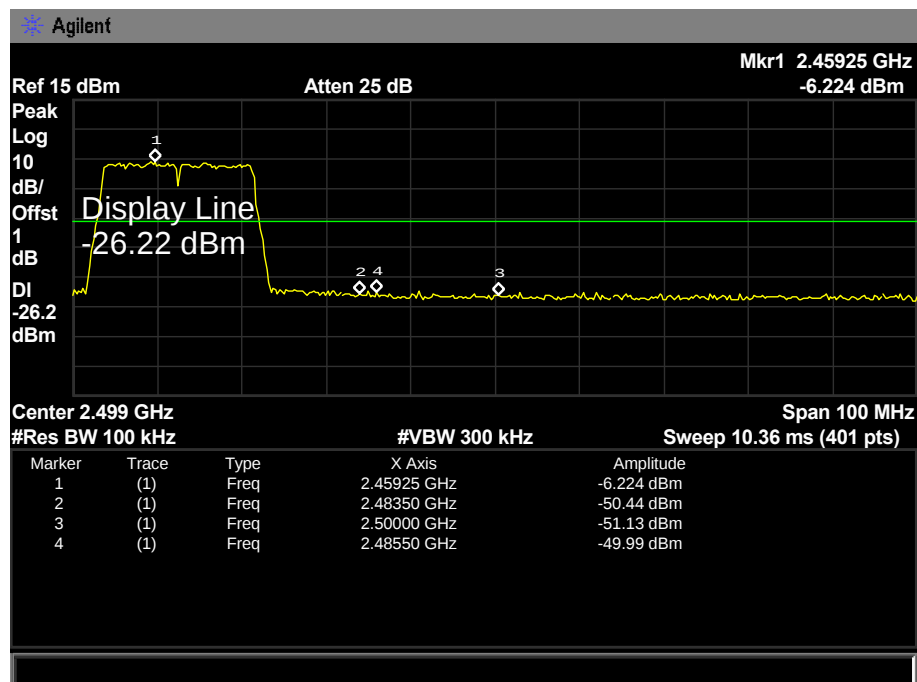
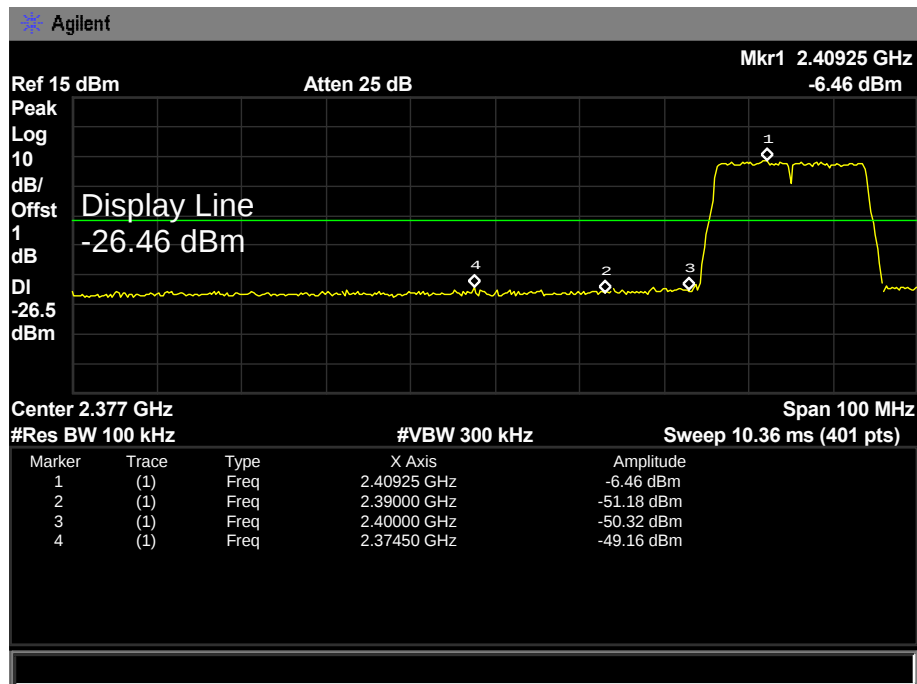
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

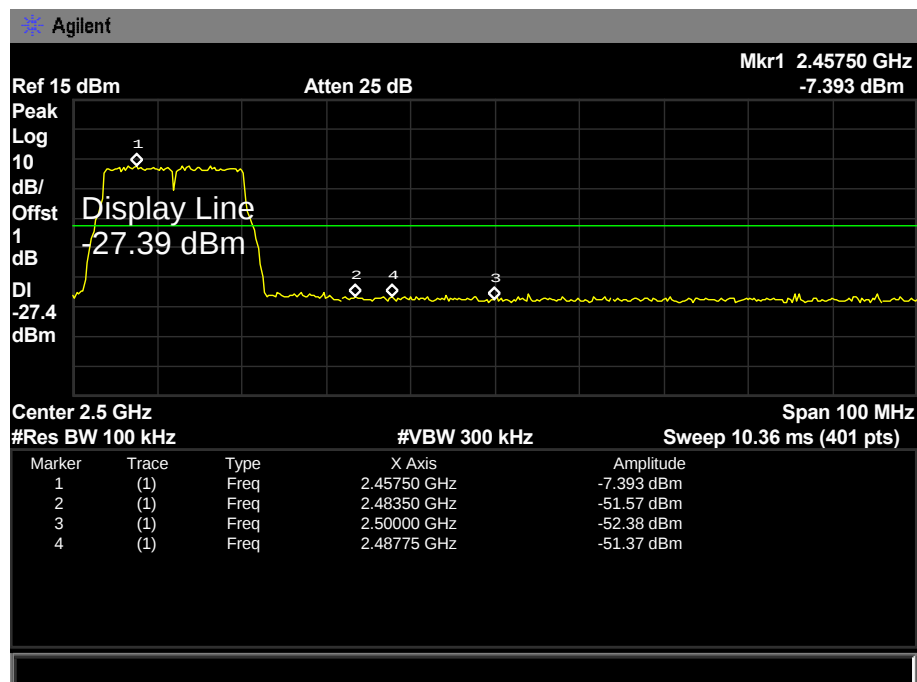
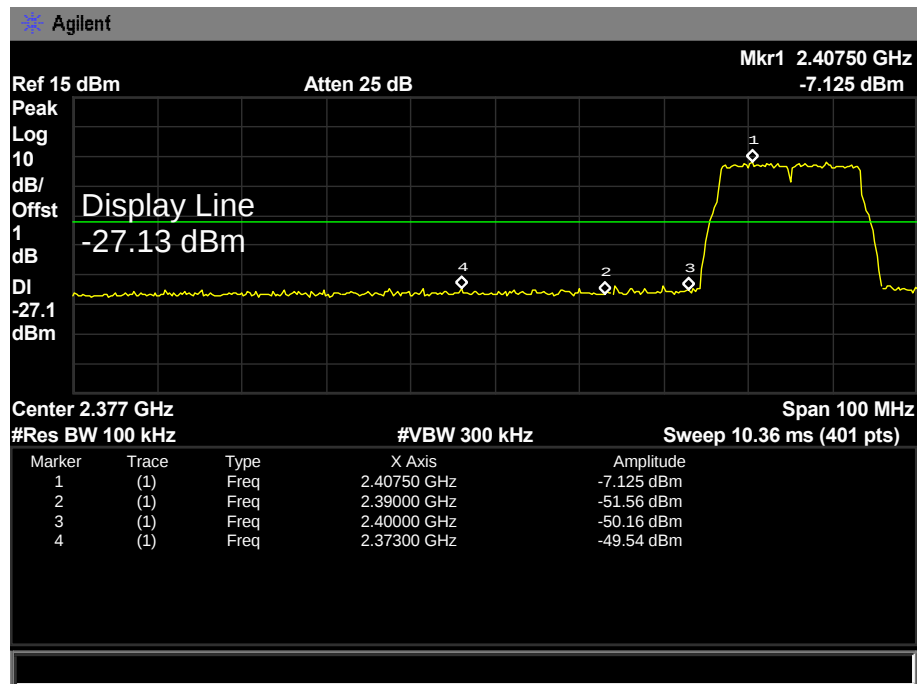
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



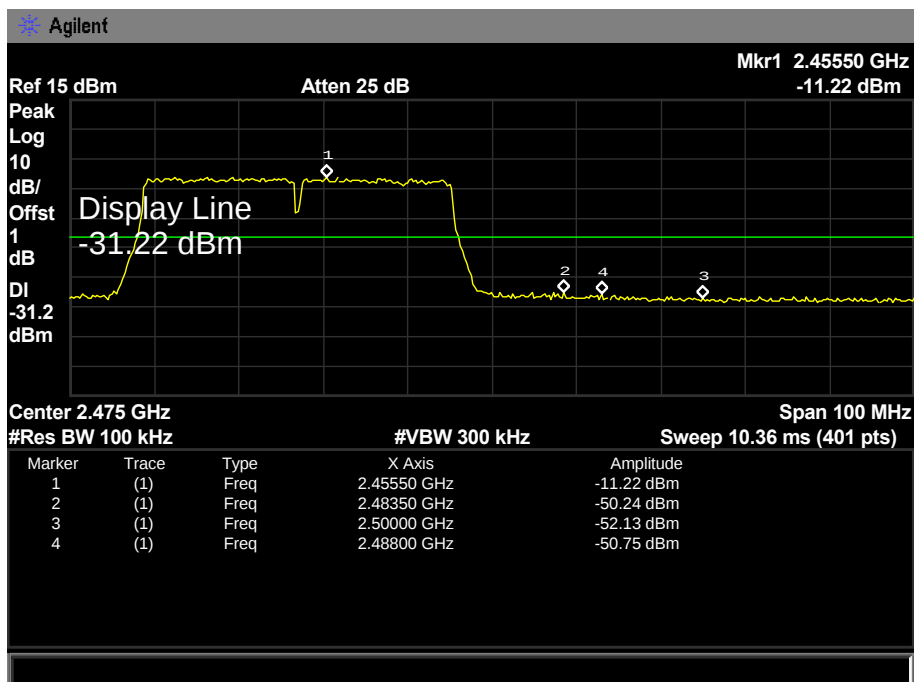
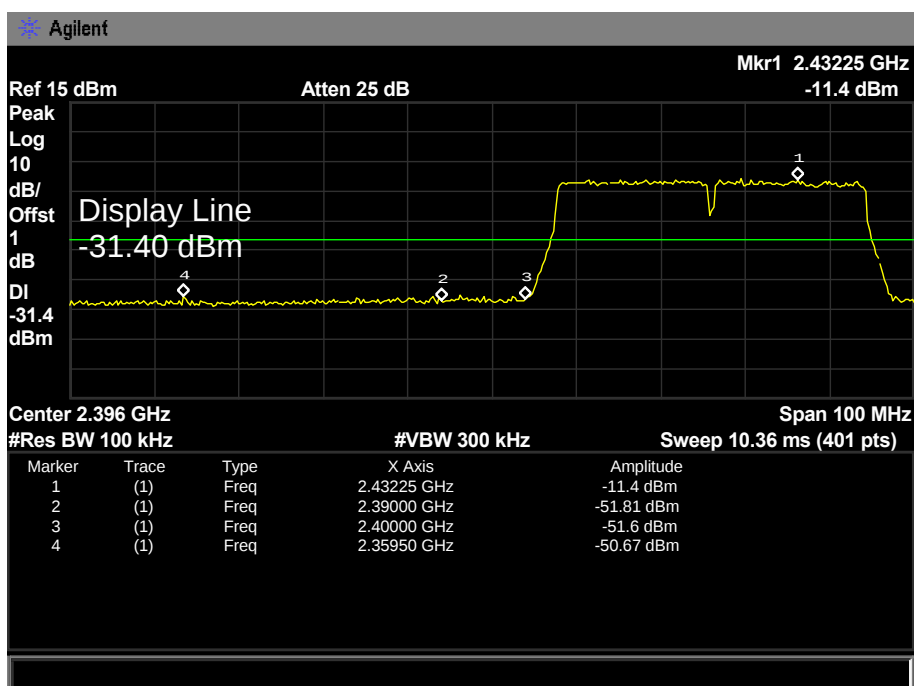
EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz		
Remark:	The EUT is programed in continuously transmitting mode		



7. Bandwidth Test

7.1 Test Standard and Limit

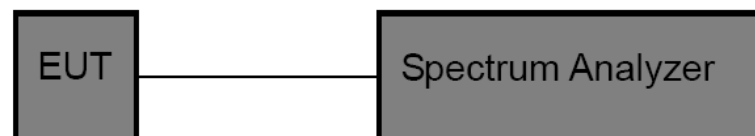
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	Limit	Frequency Range(MHz)
Bandwidth	≥ 500 KHz (6dB bandwidth)	2400~2483.5

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

7.5 Test Data

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.027	14.2612	>=0.5
2437	10.011	14.2259	
2462	10.029	14.2326	
802.11B Mode			
2412 MHz			

Agilent

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.412000000 GHz

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

14.2612 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

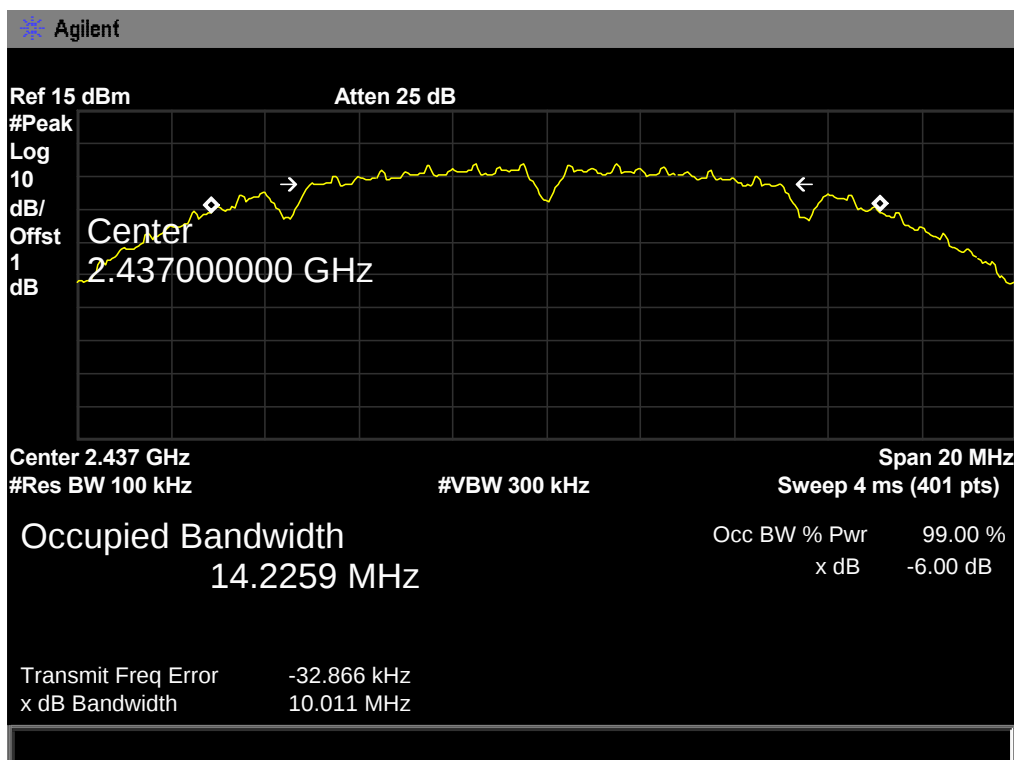
-27.013 kHz

x dB Bandwidth

10.027 MHz

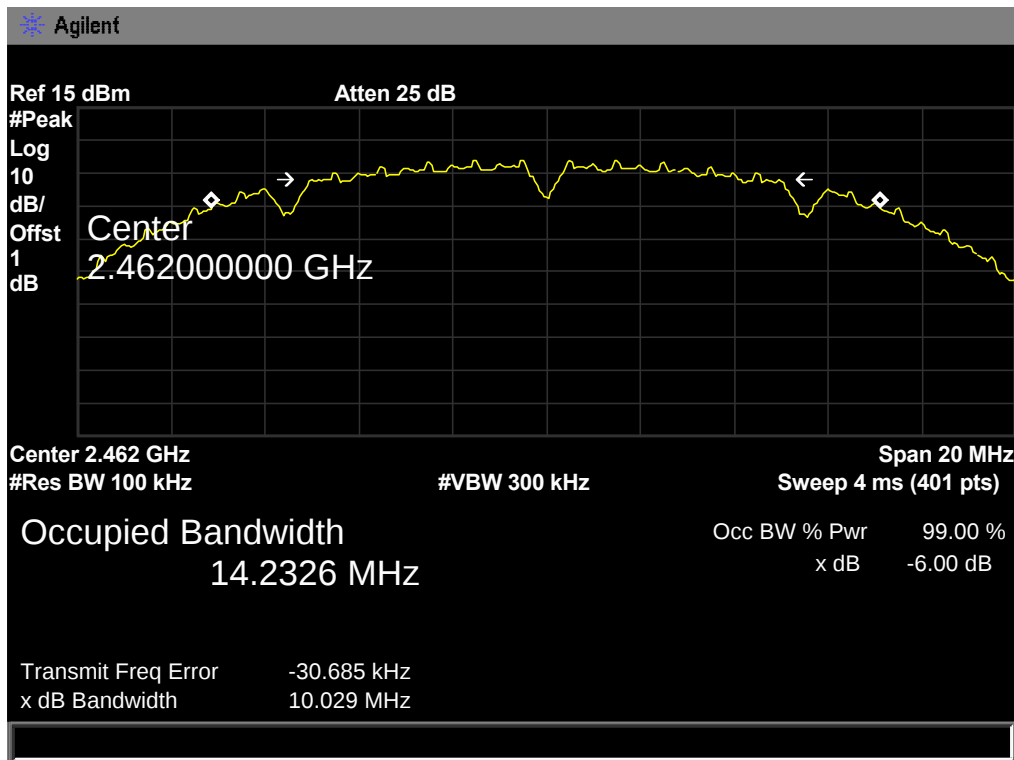
802.11B Mode

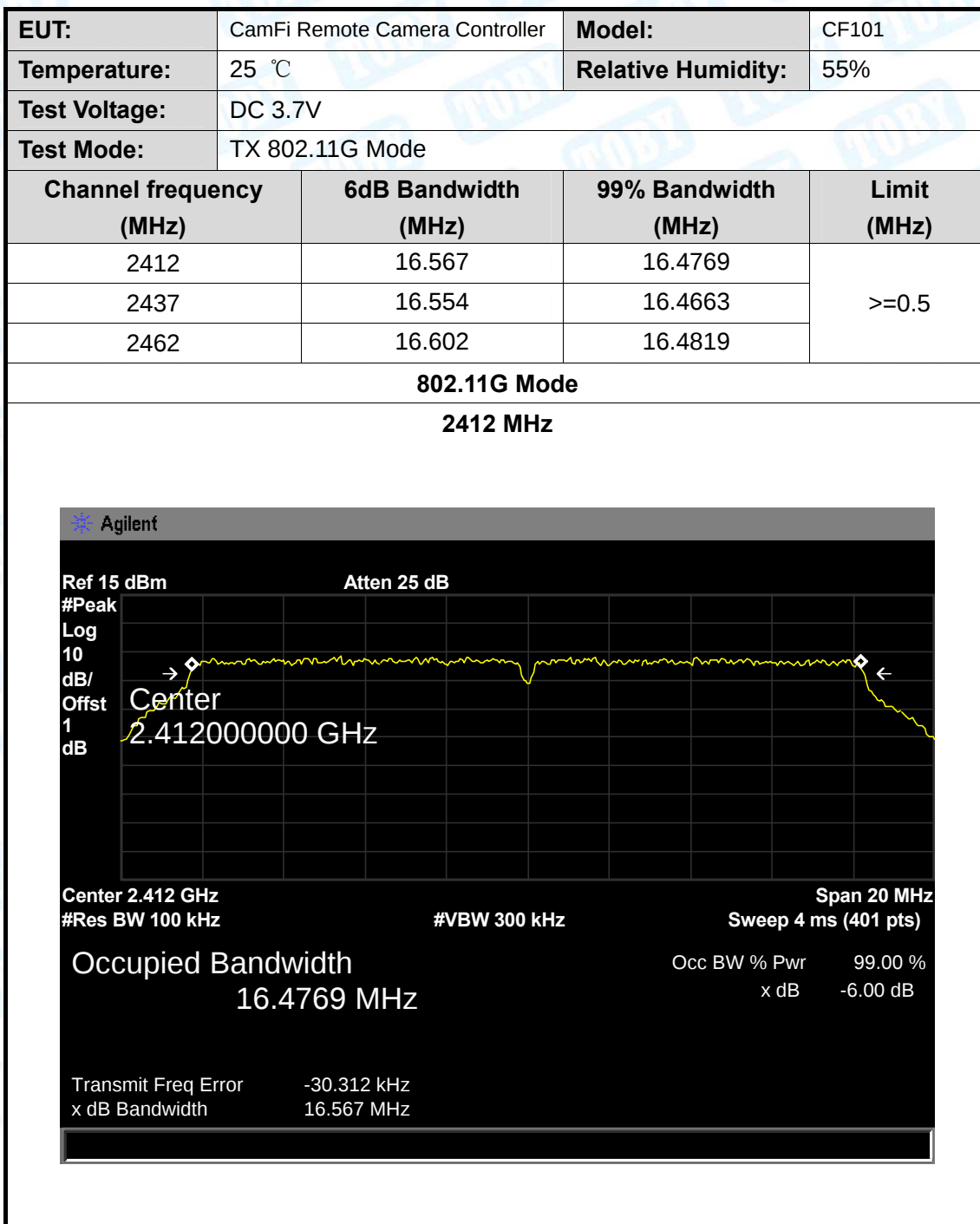
2437 MHz



802.11B Mode

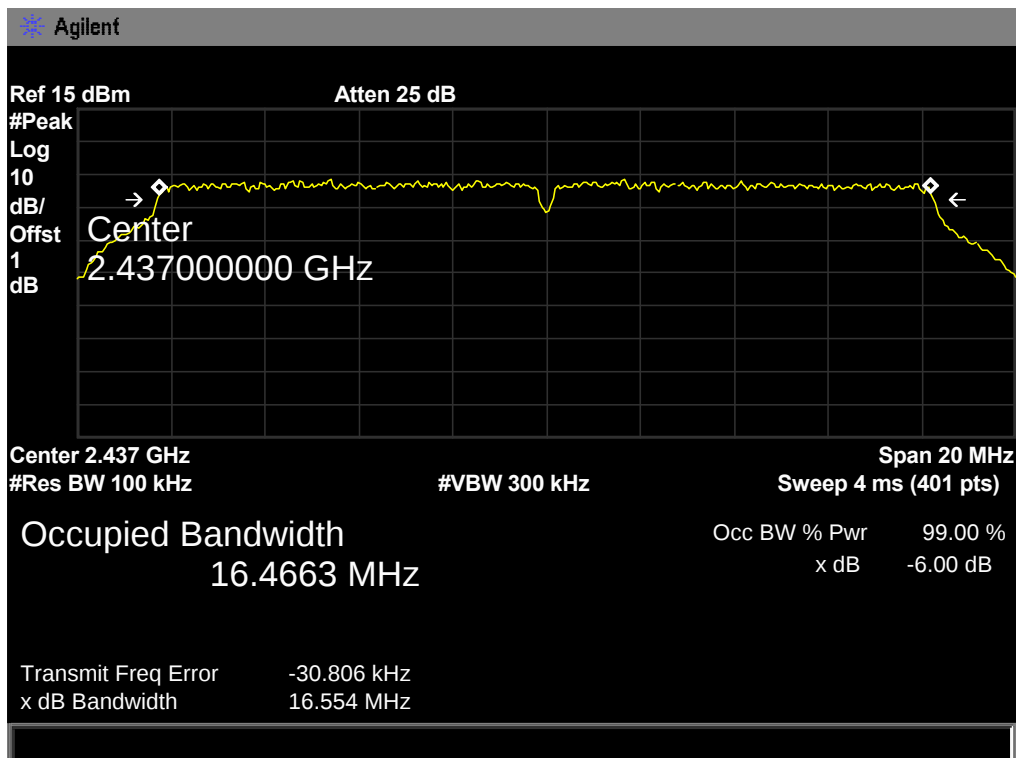
2462 MHz





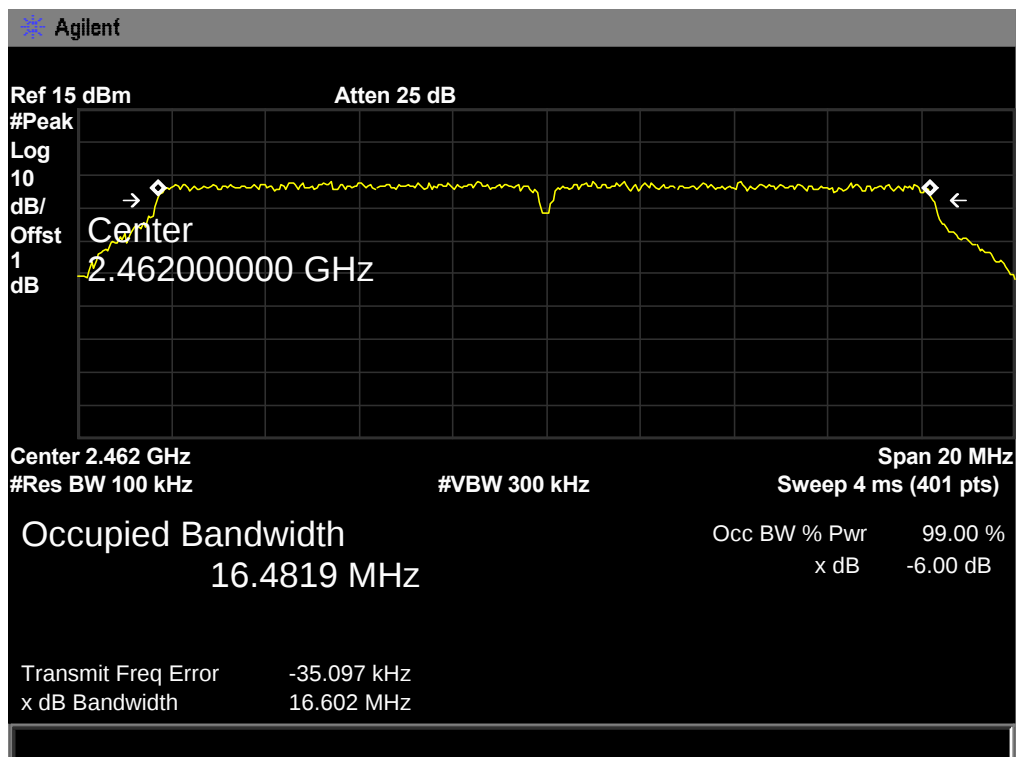
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.823	17.6268	>=0.5
2437	17.826	17.6357	
2462	17.833	17.6313	

802.11N(HT20) Mode

2412 MHz

Agilent

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

Offst

1

dB

→

Center

2.412000000 GHz

←

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 20 MHz

Sweep 4 ms (401 pts)

Occupied Bandwidth

17.6268 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

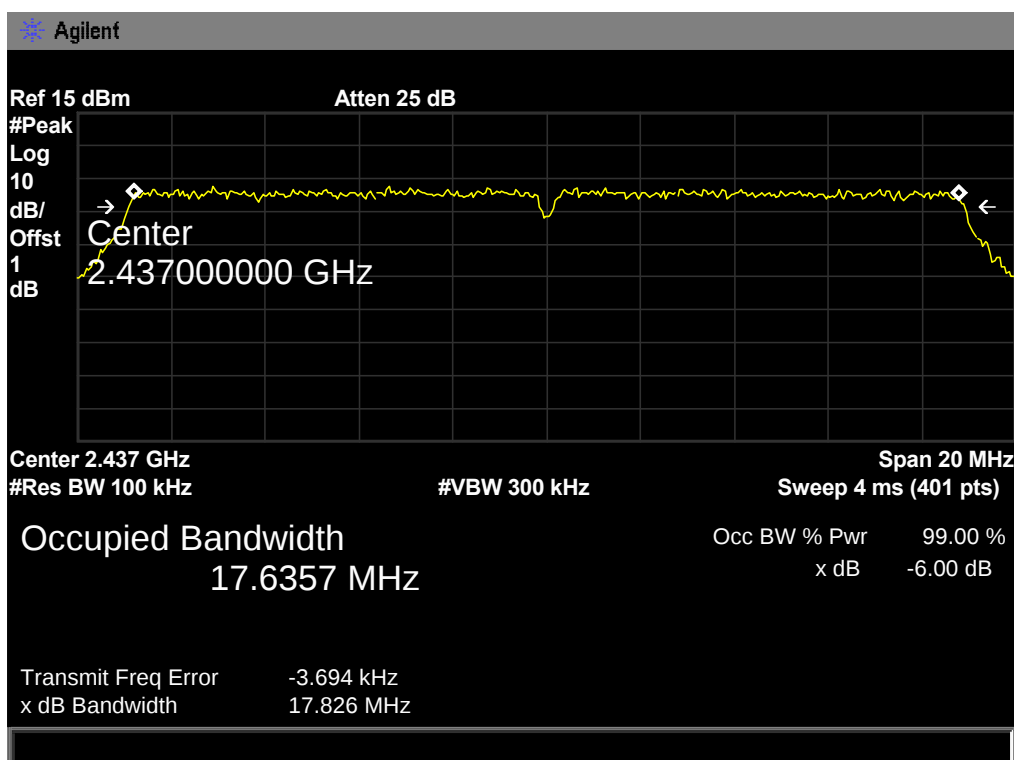
-6.852 kHz

x dB Bandwidth

17.823 MHz

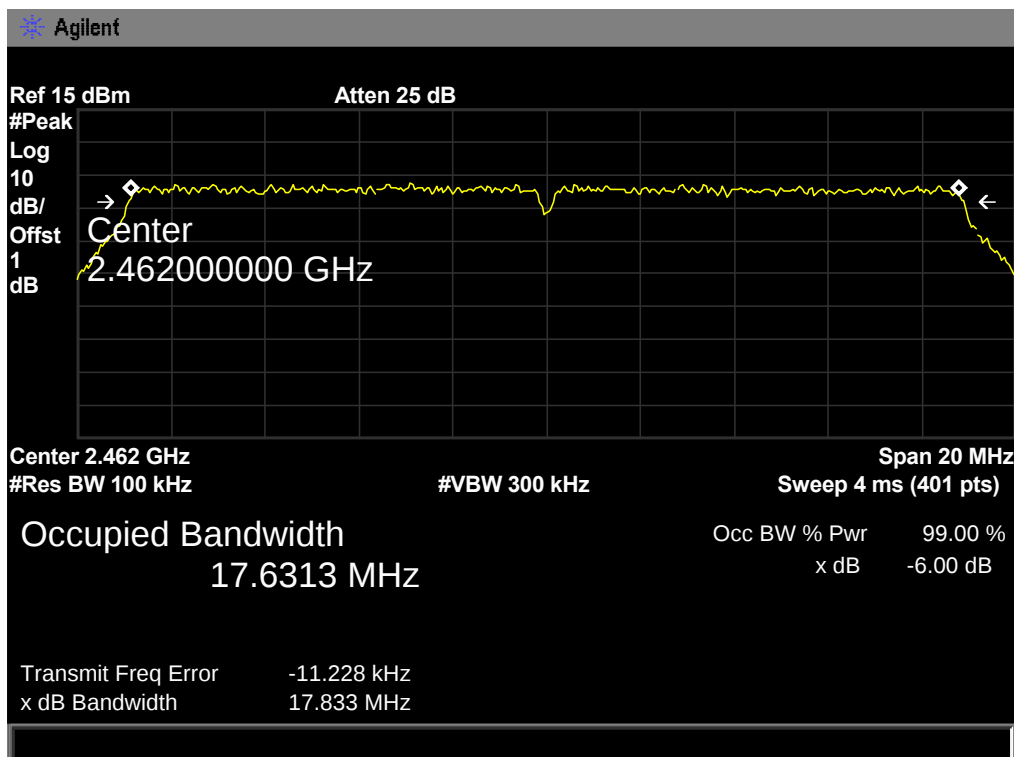
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.554	36.0173	>=0.5
2437	36.543	36.0303	
2452	36.528	36.0032	
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 15 dBm

Atten 25 dB

#Peak

Log

10

dB/

Offst

1

dB

Center

2.422000000 GHz

Center 2.422 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 40 MHz

Sweep 4.144 ms (401 pts)

Occupied Bandwidth

36.0173 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

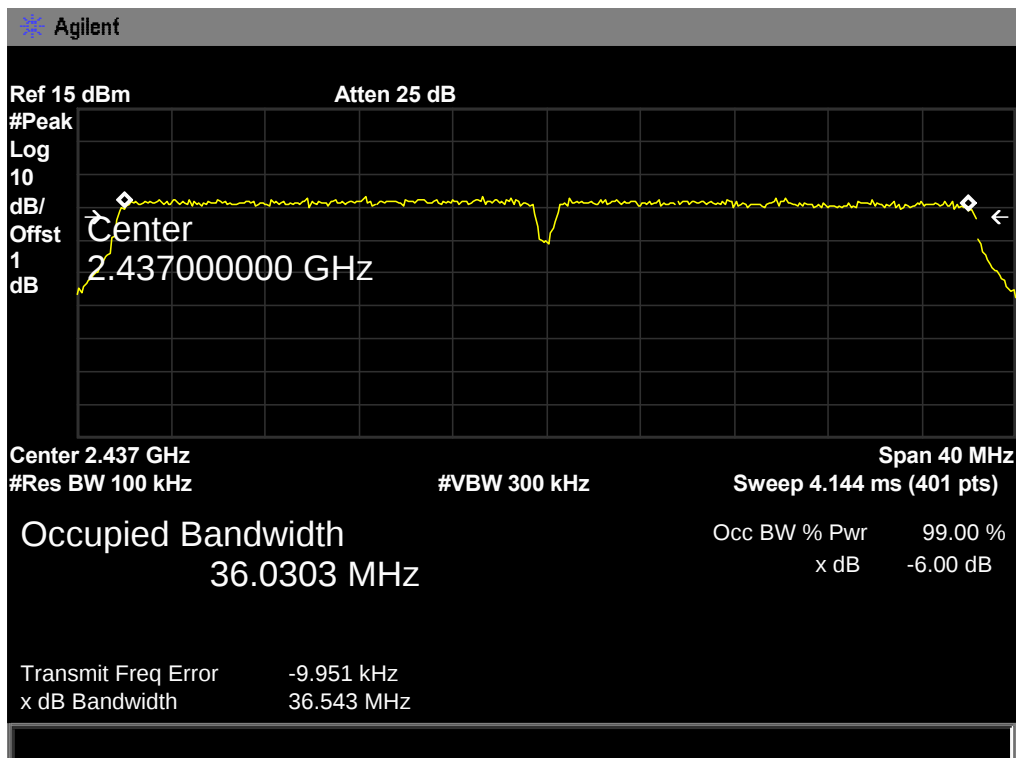
-9.719 kHz

x dB Bandwidth

36.554 MHz

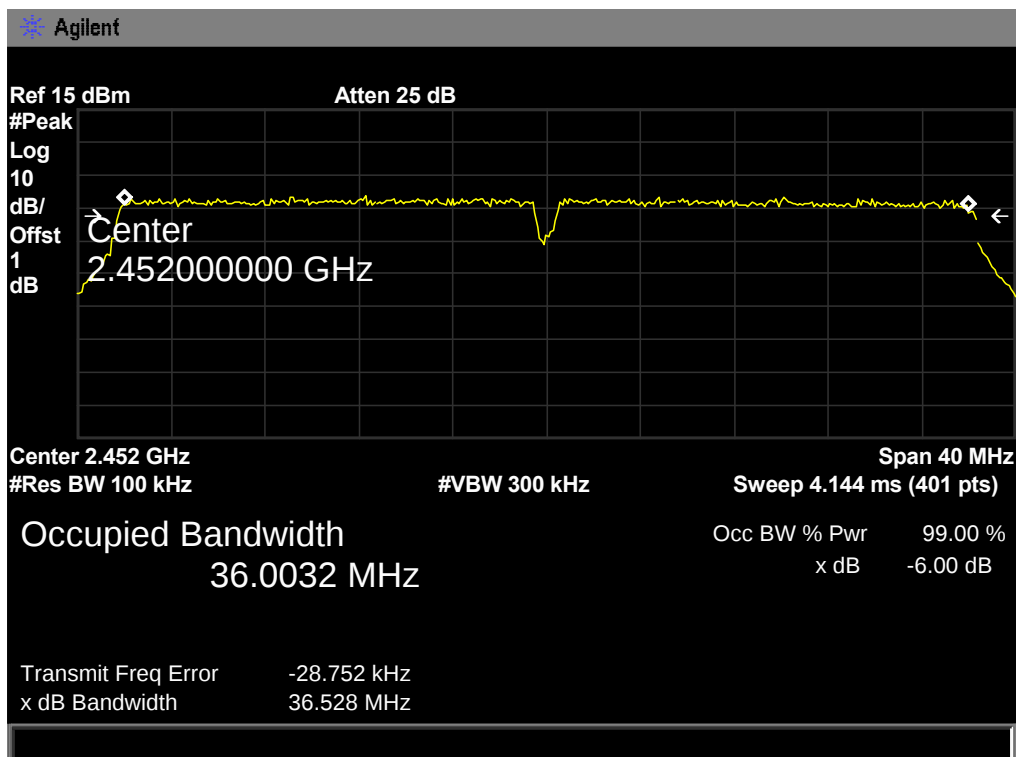
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

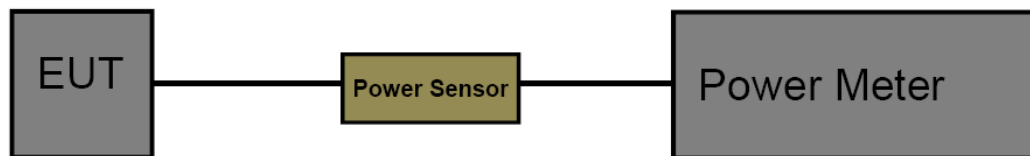
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1		
Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

8.2 Test Setup



8.3 Test Procedure

The measurement is according to section 9.1.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

The EUT was connected to RF power meter via a broadband power sensor as show the block above. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.18	30
	2437	9.15	
	2462	9.17	
802.11g	2412	9.08	
	2437	9.13	
	2462	9.09	
802.11n (HT20)	2412	9.02	
	2437	8.98	
	2462	9.04	
802.11n (HT40)	2422	9.06	
	2437	8.99	
	2452	9.05	

9. Power Spectral Density Test

9.1 Test Standard and Limit

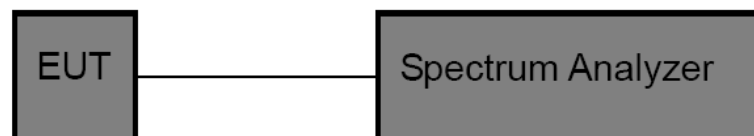
9.1.1 Test Standard

FCC Part 15.247 (e)

9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

9.2 Test Setup



9.3 Test Procedure

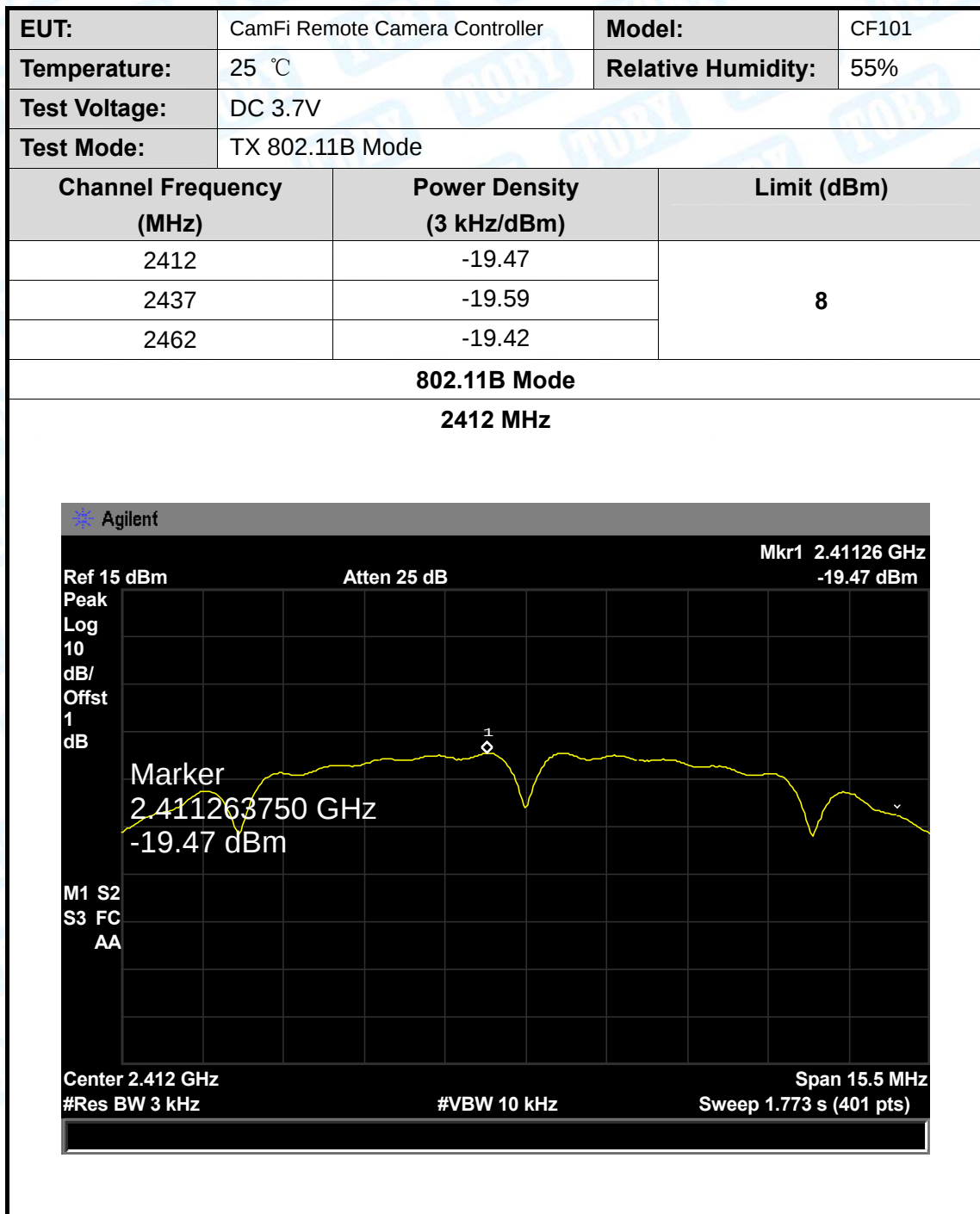
The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r03.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

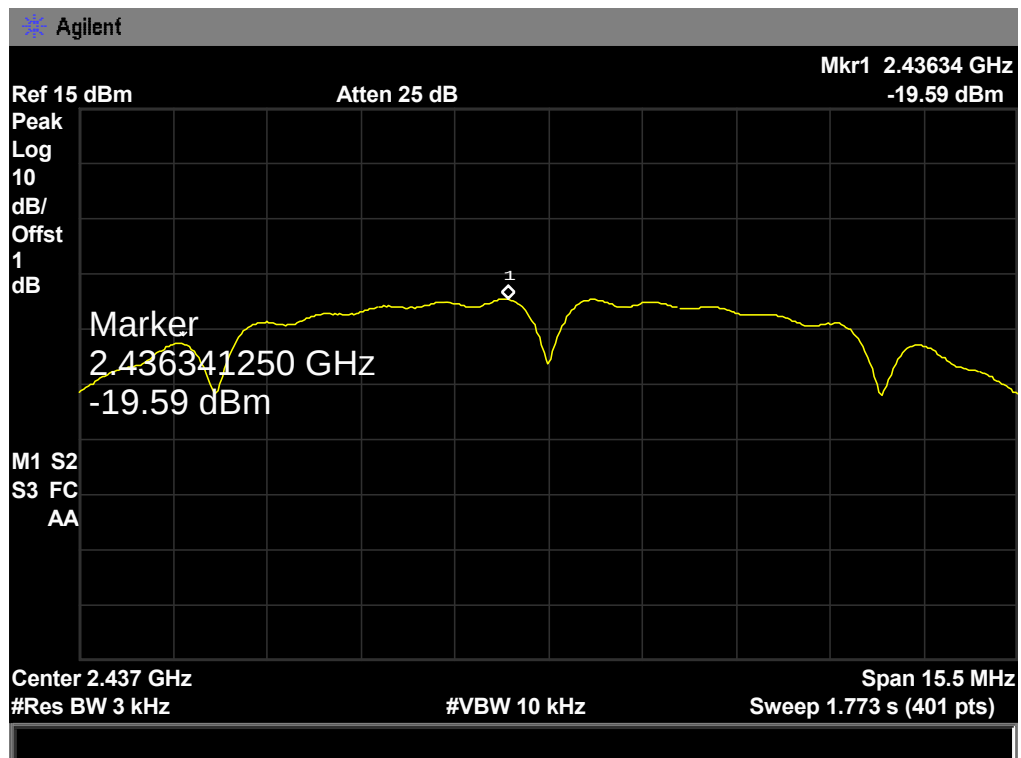
The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

9.5 Test Data



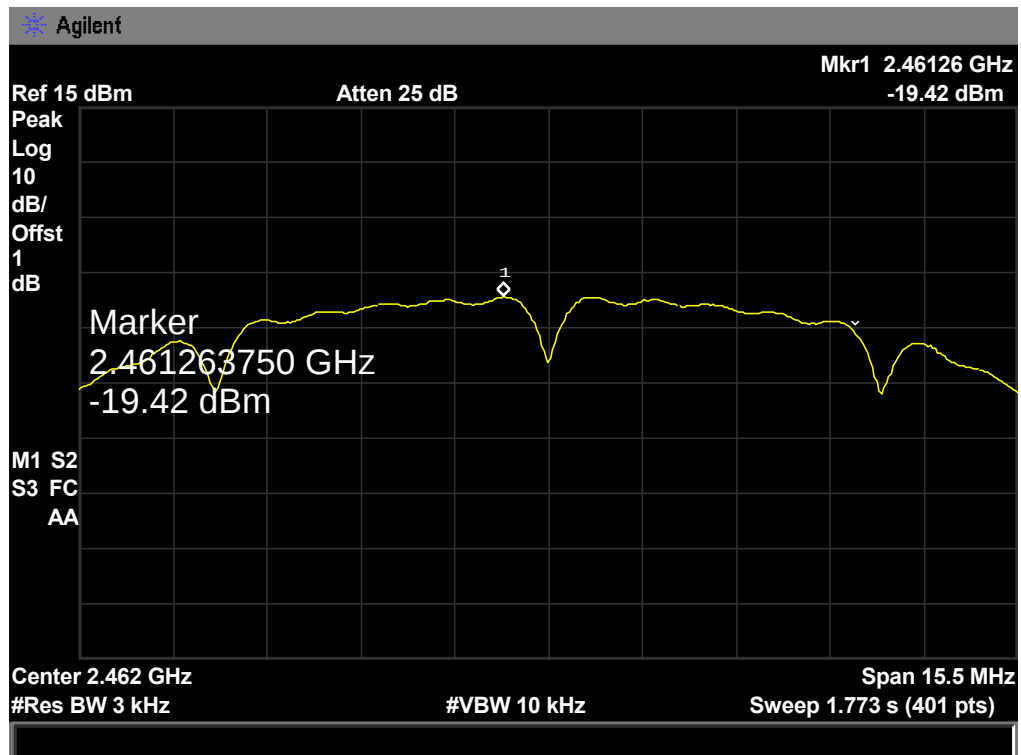
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-21.07	8	
2437	-20.19		
2462	-20.81		
802.11G Mode			
2412 MHz			

Agilent

Ref 15 dBm

Atten 25 dB

Mkr1 2.4151875 GHz
-21.07 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.415187500 GHz

-21.07 dBm

M1 S2

S3 FC

AA

Center 2.412 GHz

#Res BW 3 kHz

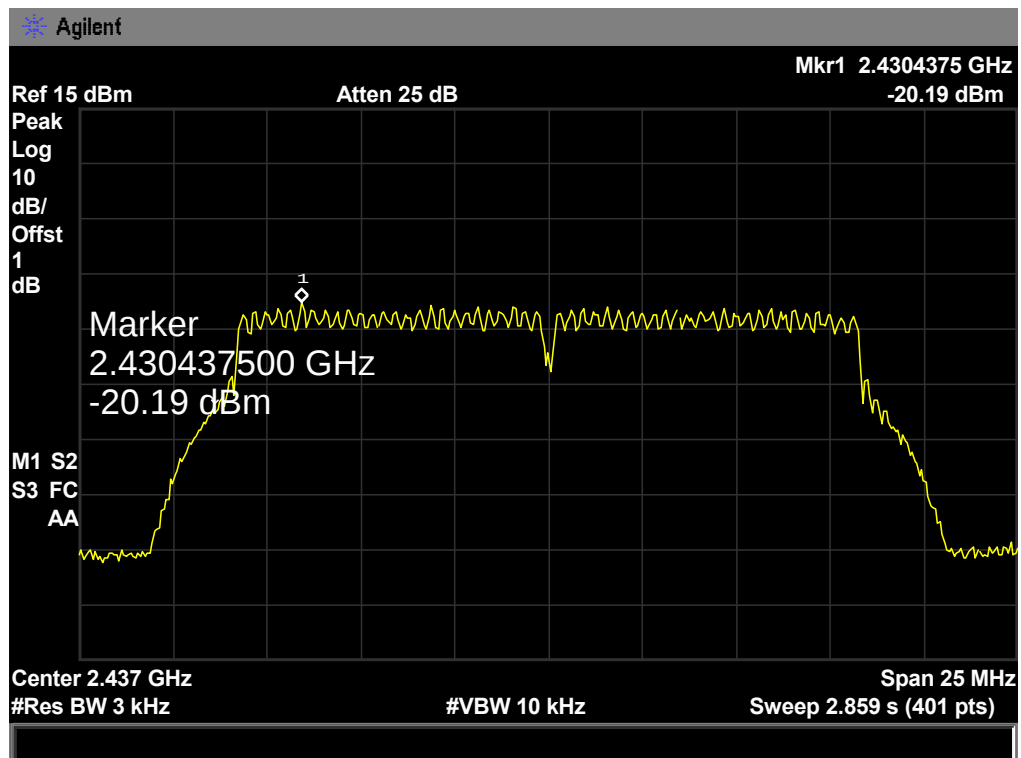
#VBW 10 kHz

Span 25 MHz

Sweep 2.859 s (401 pts)

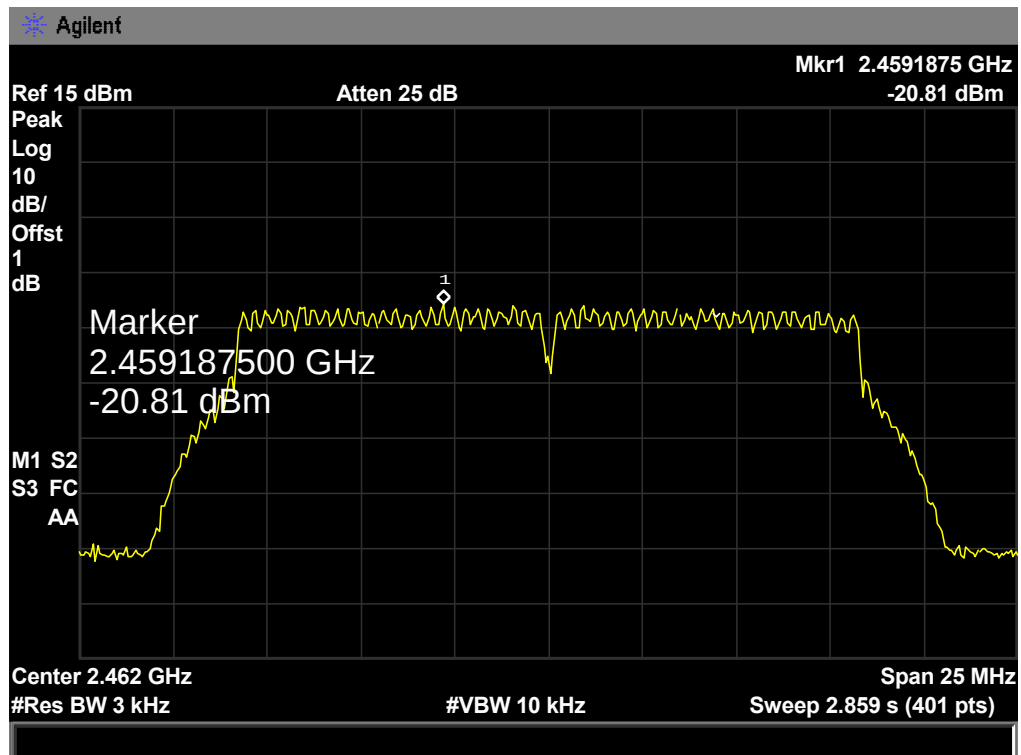
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-20.91	8	
2437	-21.24		
2462	-20.61		
802.11N(HT20) Mode			
2412 MHz			

Agilent

Ref 15 dBm

Atten 25 dB

Mkr1 2.4053850 GHz
-20.91 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.405385000 GHz

-20.91 dBm

M1 S2

S3 FC

AA

Center 2.412 GHz

#Res BW 3 kHz

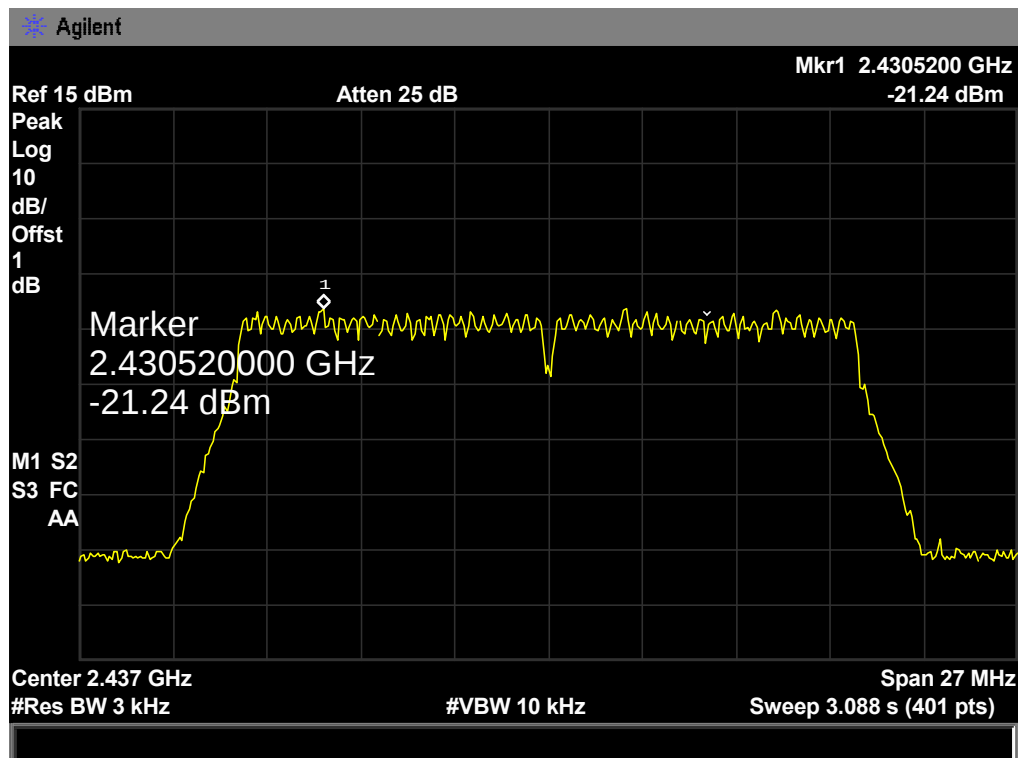
#VBW 10 kHz

Span 27 MHz

Sweep 3.088 s (401 pts)

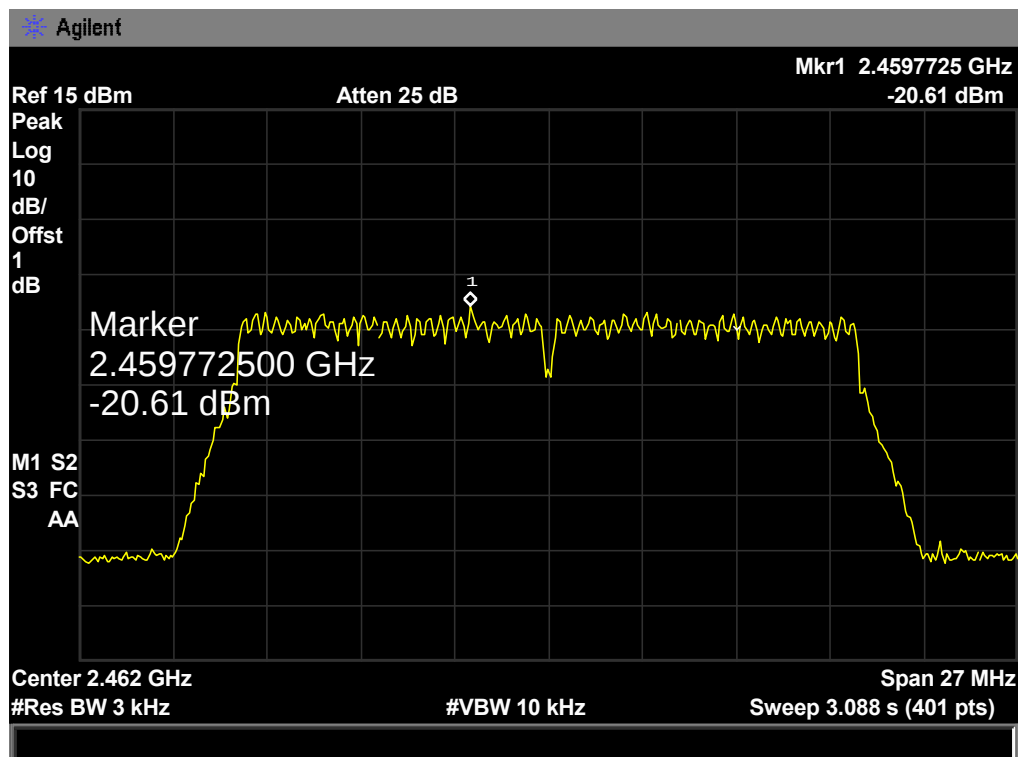
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



EUT:	CamFi Remote Camera Controller	Model:	CF101
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Test Mode:	TX 802.11N(HT40) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2422	-24.58	8	
2437	-24.95		
2452	-24.72		
802.11N(HT40) Mode			
2422 MHz			

Agilent

Ref 15 dBm

Atten 25 dB

Mkr1 2.42544 GHz
-24.58 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.425437500 GHz

-24.58 dBm

M1 S2

S3 FC

AA

Center 2.422 GHz

#Res BW 3 kHz

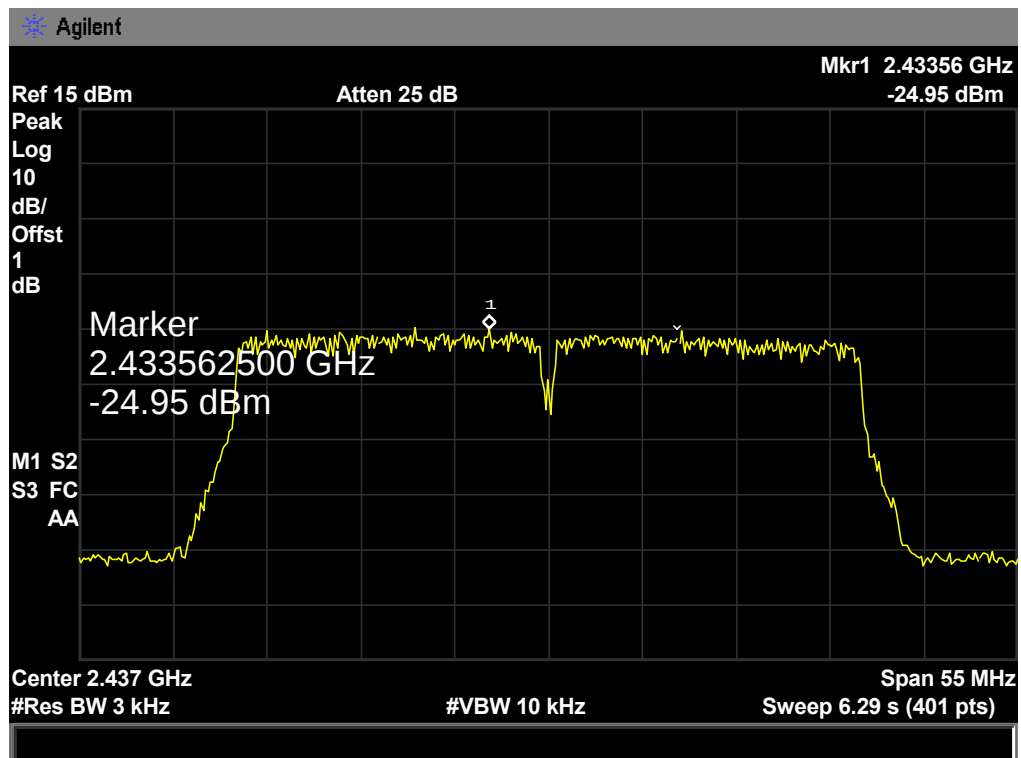
#VBW 10 kHz

Span 55 MHz

Sweep 6.29 s (401 pts)

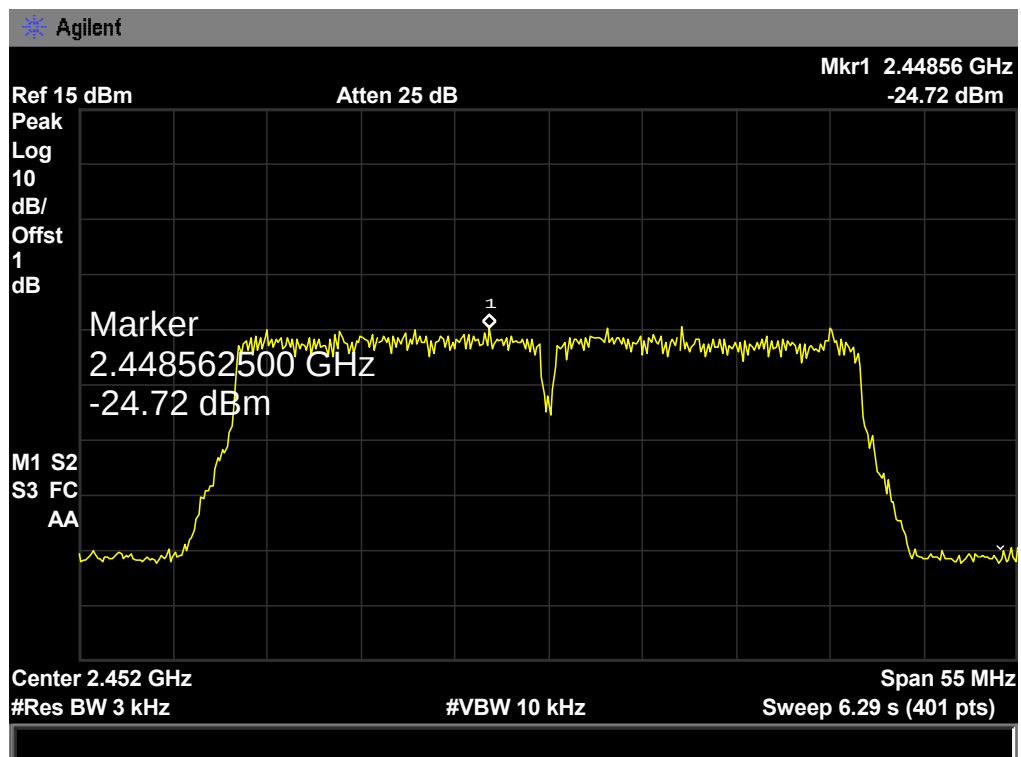
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 0.9 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

10.3 Result

The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

Antenna Type
☒ Permanent attached antenna
☐ Unique connector antenna
☐ Professional installation antenna