



# **FCC RADIO TEST REPORT**

## **FCC ID: 2AC5X-I1**

**Product :** Ithink Hand View Remote Webcam

**Trade Name :** Ithink/埃森客

**Model Name :** I1

**Serial Model :** N/A

**Report No. :** BZT- 2014091231R

### **Prepared for**

Beijing Essen Innovation Technology Co. Ltd.  
No. 718, 7th floor, 1+1 building, No. 10 of caihefang road, haidian district,  
Beijing city, china

### **Prepared by**

BZT Testing Technology Co., Ltd.  
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Bao'an District, Shenzhen P.R. China

## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Beijing Essen Innovation Technology Co. Ltd.  
**Address** ..... : No. 718, 7th floor, 1+1 building, No. 10 of caihefang road, haidian district, Beijing city, china  
**Manufacture's Name** ..... : Beijing Essen Innovation Technology Co. Ltd.  
**Address** ..... : No. 718, 7th floor, 1+1 building, No. 10 of caihefang road, haidian district, Beijing city, china

### Product description

**Product name** ..... : Ithink Hand View Remote Webcam  
**Model and/or type reference** : I1  
**Serial Model** ..... : N/A

**Standards** ..... : FCC Part15.247

**Test procedure** ..... ANSI C63.4-2003

This device described above has been tested by BZT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** ..... :

**Date (s) of performance of tests** ..... : 01 Sep. 2014 ~12 Sep. 2014

**Date of Issue** ..... : 12 Sep. 2014

**Test Result** ..... : **Pass**

Testing Engineer : \_\_\_\_\_

*Apple Huang*

(Apple Huang)

Technical Manager : \_\_\_\_\_

*Tom Zhang*

(Tom Zhang)

Authorized Signatory : \_\_\_\_\_

*Bovey Yang*

(Bovey Yang)

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**1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

<b>FCC Part15 (15.247) , Subpart C</b>			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

**NOTE:**

(1) "N/A" denotes test is not applicable in this Test Report

## 1.1 TEST FACILITY

BZT Testing Technology Co., Ltd.

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registered No.: 701733

## 1.2 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 %** .

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Ithink Hand View Remote Webcam	
Trade Name	Ithink/埃森客	
Model Name	I1	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Ithink Hand View Remote Webcam	
	Operation Frequency:	802.11b/g/n:2412~2462 MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20):65 /52/6.5 Mbps
	Number Of Channel	802.11b/g/n20: 11CH
	Antenna Designation:	Please see Note 3.
	Output Power(Peak):	802.11b: 17.23 dBm (Max.) 802.11g: 13.99 dBm (Max.) 802.11n 20: 12.81 dBm (Max.)
	Antenna Gain (dBi)	2.0dbi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Ratings	AC 120V/60HZ	
Adapter	INPUT:AC100-240V 50/60Hz,0.2A,Max OUTPUT:5V,1A Model:SK12G-0500100C	
Battery	N/A	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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

2.

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3.

Table for Filed Antenna

Ant .	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	FPCB	N/A	2.0	N/A



## 2.2 DESCRIPTION OF TEST MODES

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 above was evaluated respectively.

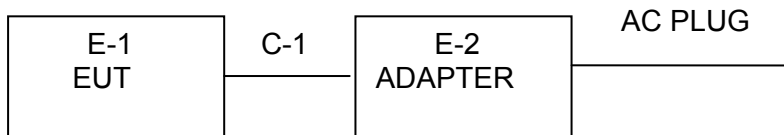
Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	Link Mode

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

**2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

**2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Ithink Hand View Remote Webcam	Ithink/埃森客	I1	N/A	EUT
E-2	ADAPTER	N/A	SK12G-0500100C	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.07.06	2015.07.05	1 year

### Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 3.1.2 TEST PROCEDURE

- The EUT was placed 0.4 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.1.4 TEST SETUP



**Note: 1.**Support units were connected to second LISN .

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

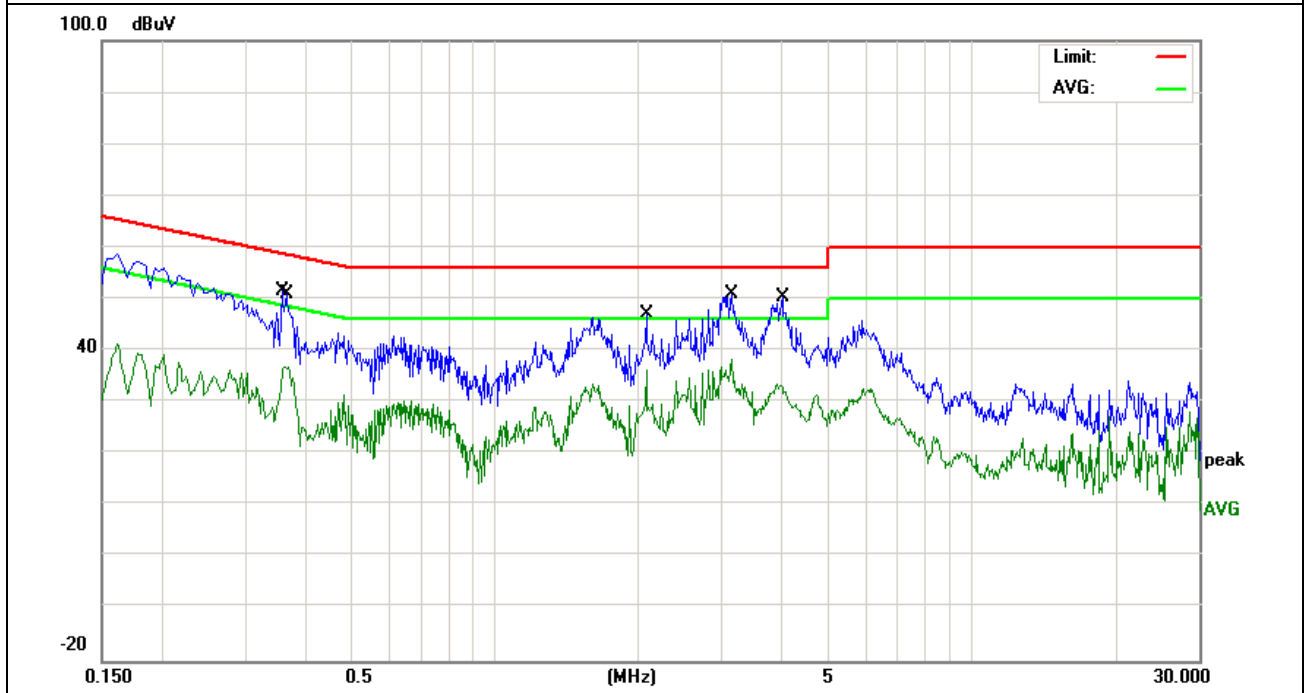
### 3.1.6 TEST RESULTS

EUT :	Ithink Hand View Remote Webcam	Model Name. :	I1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60HZ	Test Mode :	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3580	41.34	10.20	51.54	58.77	-7.23	QP
0.3700	26.38	10.20	36.58	48.50	-11.92	AVG
2.0820	26.25	10.25	36.50	46.00	-9.50	AVG
3.1420	40.36	10.29	50.65	56.00	-5.35	QP
3.1420	28.25	10.29	38.54	46.00	-7.46	AVG
4.0220	40.35	10.31	50.66	56.00	-5.34	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

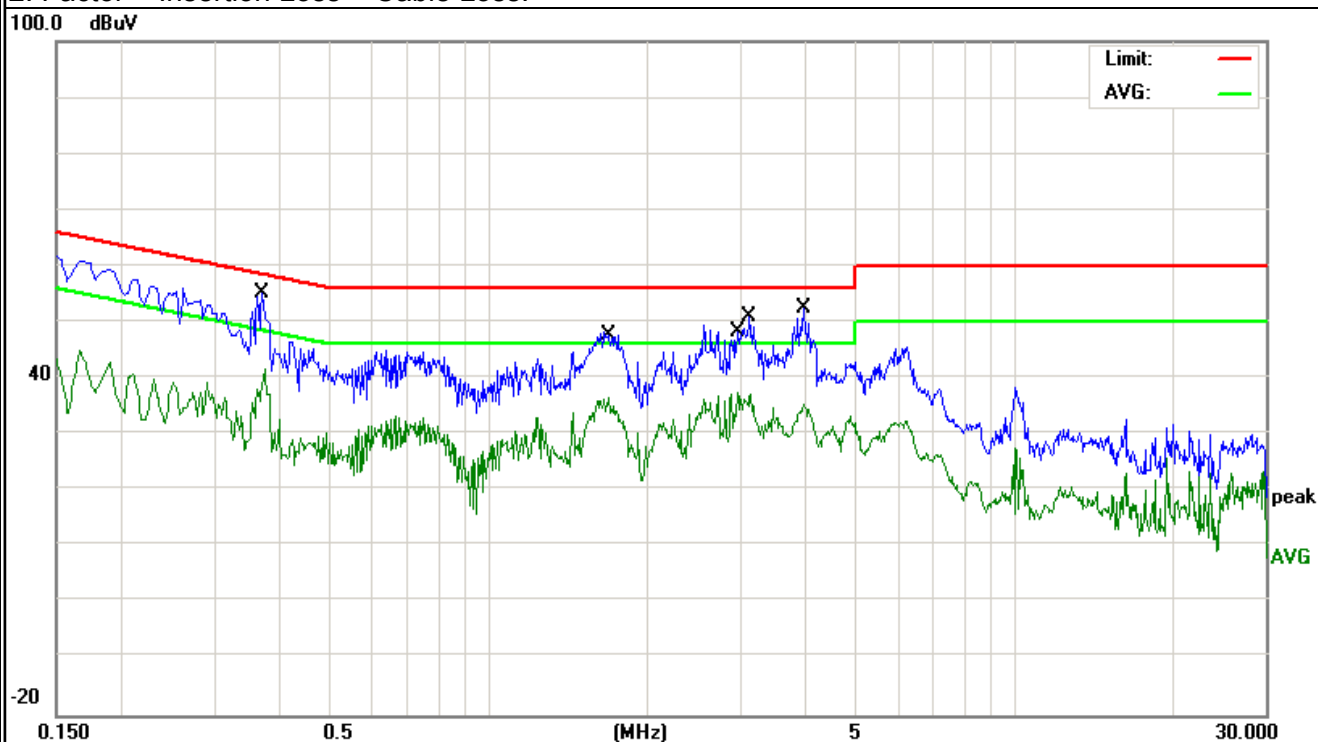


EUT :	Ithink Hand View Remote Webcam	Model Name. :	I1
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60HZ	Test Mode :	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3700	44.90	10.20	55.10	58.50	-3.40	QP
0.3740	31.33	10.20	41.53	48.41	-6.88	AVG
1.6980	26.13	10.22	36.35	46.00	-9.65	AVG
2.9739	27.29	10.29	37.58	46.00	-8.42	AVG
3.1380	40.63	10.29	50.92	56.00	-5.08	QP
3.9740	42.34	10.31	52.65	56.00	-3.35	QP

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

**3.2.2 TEST PROCEDURE**

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**Note:**

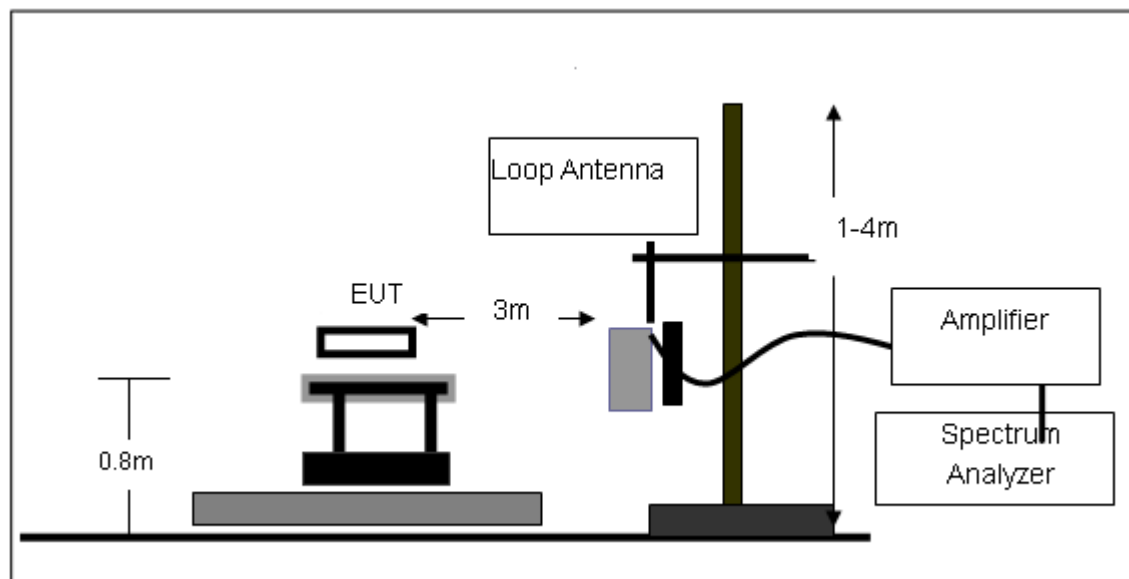
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

**3.2.3 DEVIATION FROM TEST STANDARD**

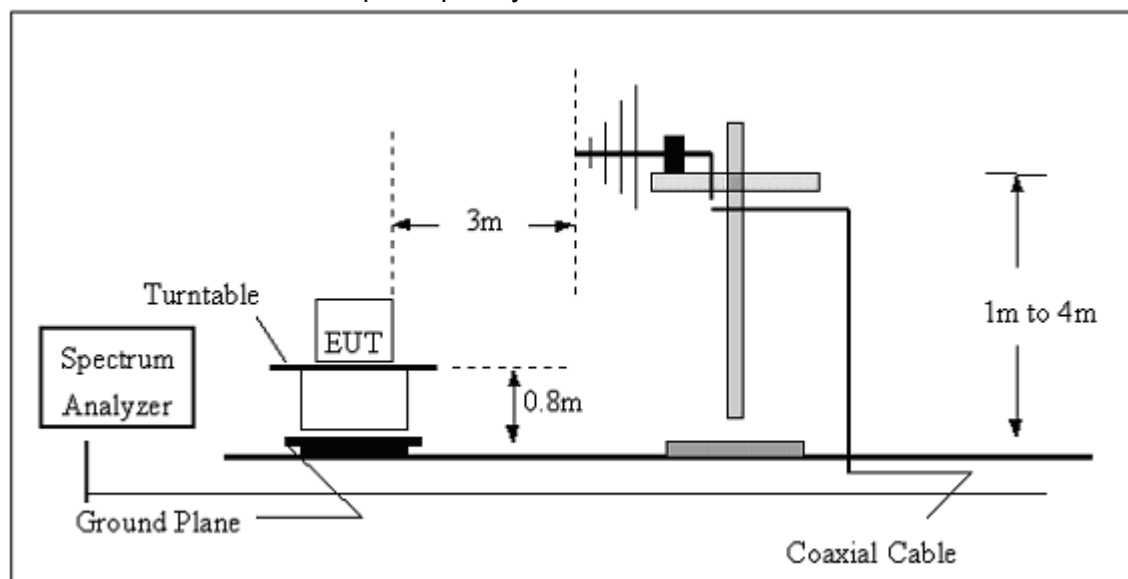
No deviation

### 3.2.4 TEST SETUP

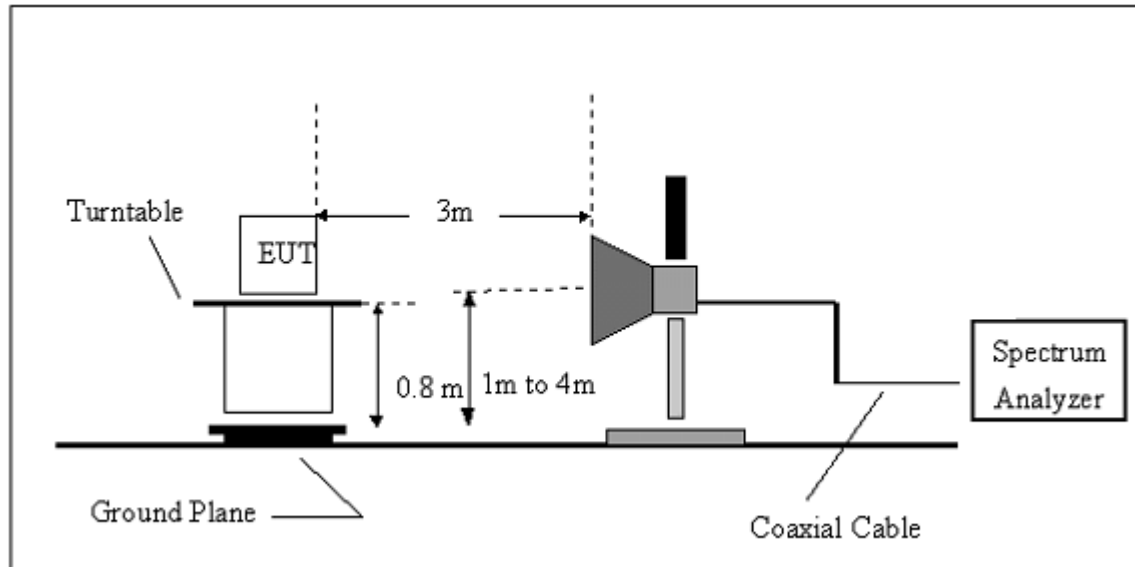
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)**

EUT:	lthink Hand View Remote Webcam	Model Name. :	l1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

**NOTE:**

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $40 \log (\text{specific distance/test distance})(\text{dB})$ ;

Limit line = specific limits(dBuv) + distance extrapolation factor.

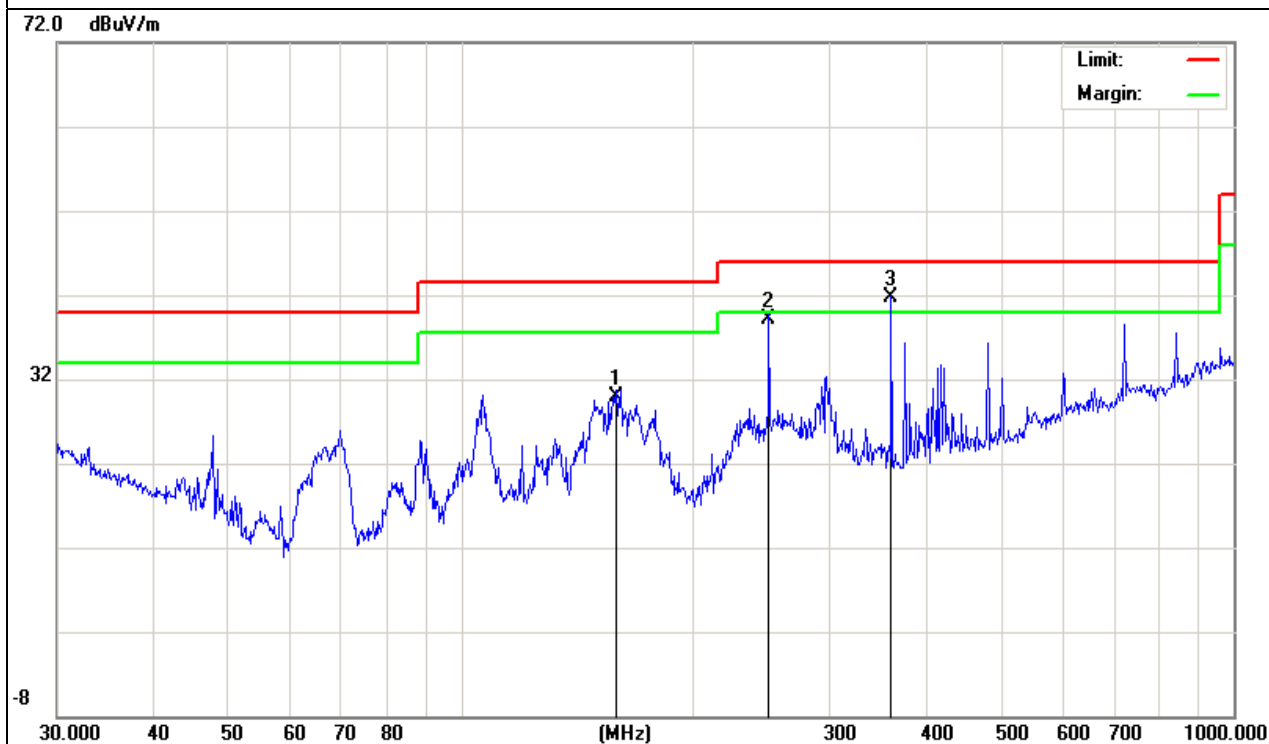
### 3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
158.6677	19.08	10.83	29.91	43.50	-13.59	QP
250.3012	26.05	13.09	39.14	46.00	-6.86	QP
360.4476	26.05	15.57	41.62	46.00	-4.38	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

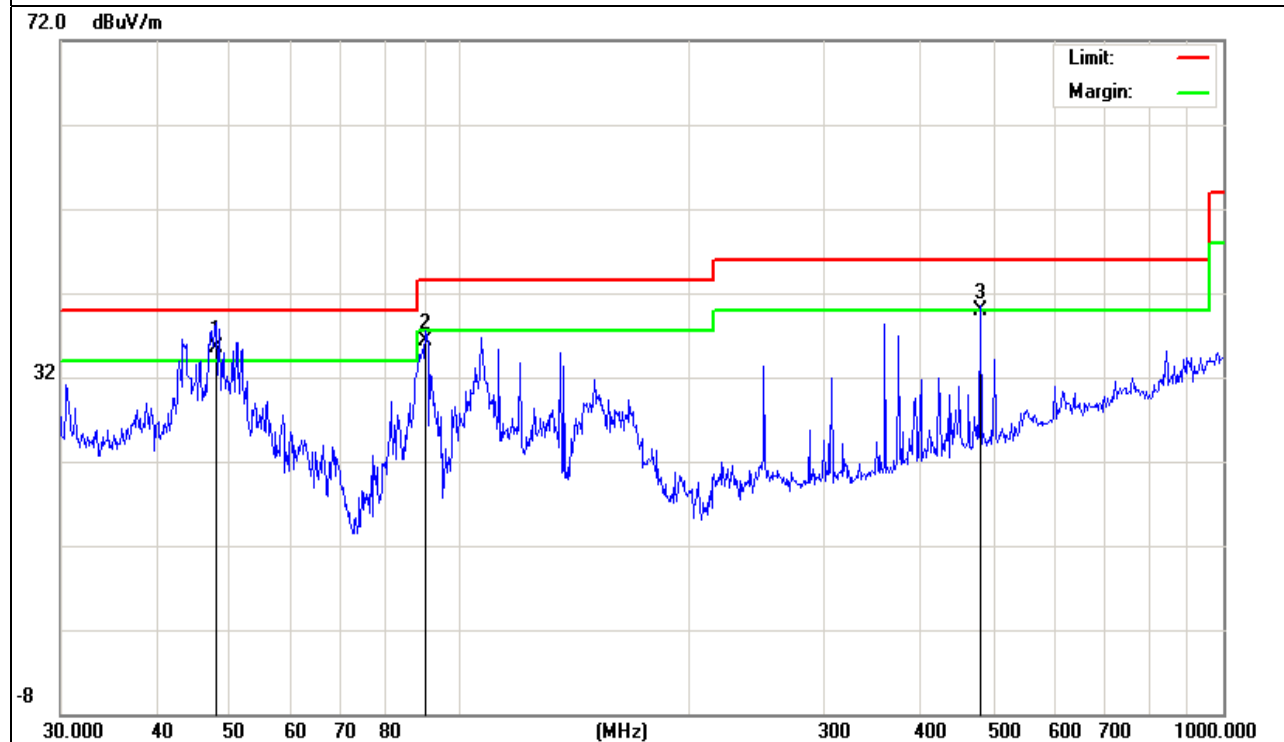


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
47.9939	26.37	9.13	35.50	40.00	-4.50	QP
90.2205	27.02	9.38	36.40	43.50	-7.10	QP
480.5276	21.09	18.72	39.81	46.00	-6.19	QP

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



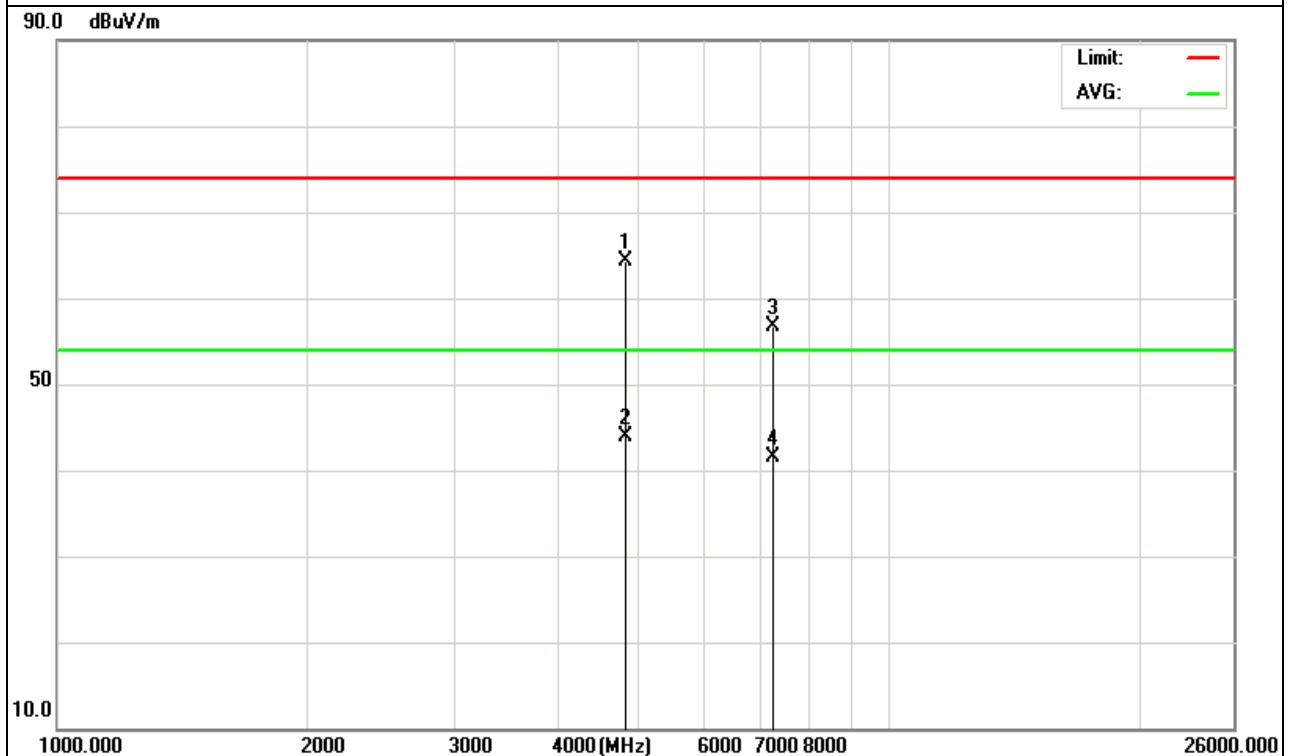
### 3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.143	53.90	10.44	64.34	74.00	-9.66	peak
4824.143	33.38	10.44	43.82	54.00	-10.18	AVG
7236.165	44.30	12.39	56.69	74.00	-17.31	peak
7236.165	29.08	12.39	41.47	54.00	-12.53	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



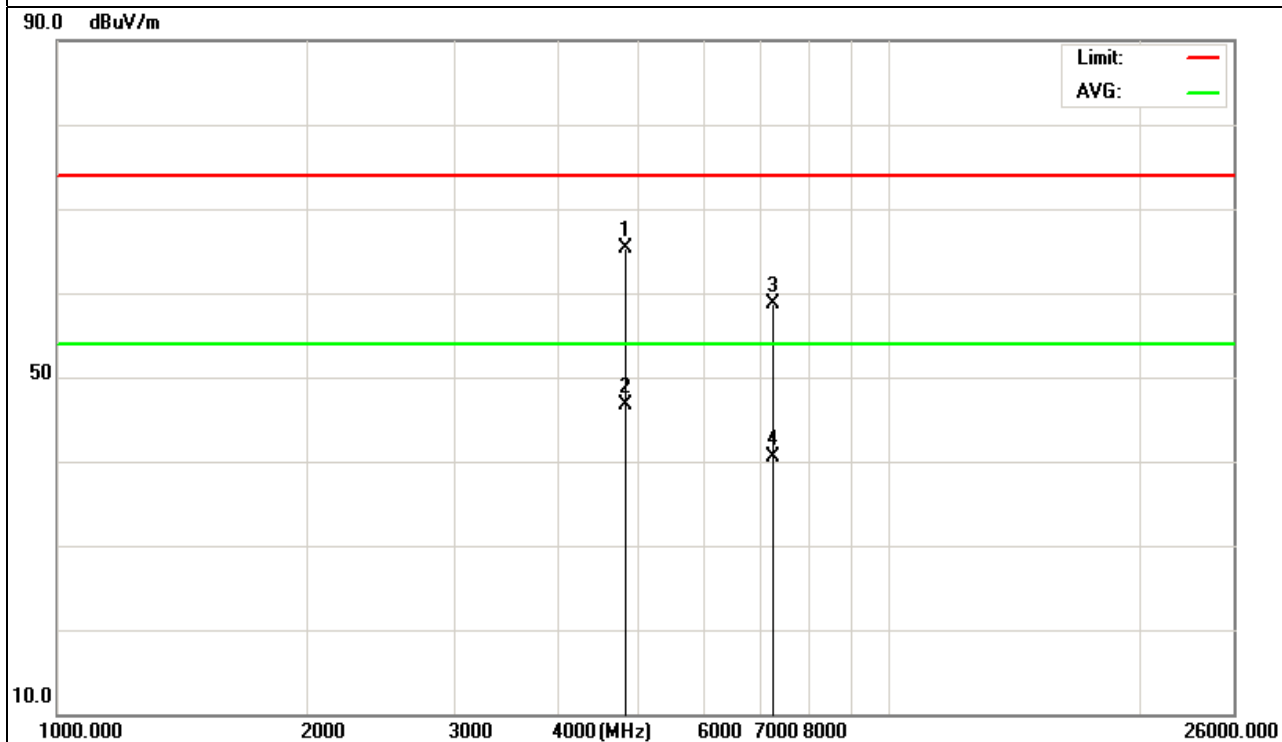


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.128	54.78	10.44	65.22	74.00	-8.78	peak
4824.128	36.31	10.44	46.75	54.00	-7.25	AVG
7236.139	46.27	12.39	58.66	74.00	-15.34	peak
7236.139	28.18	12.39	40.57	54.00	-13.43	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

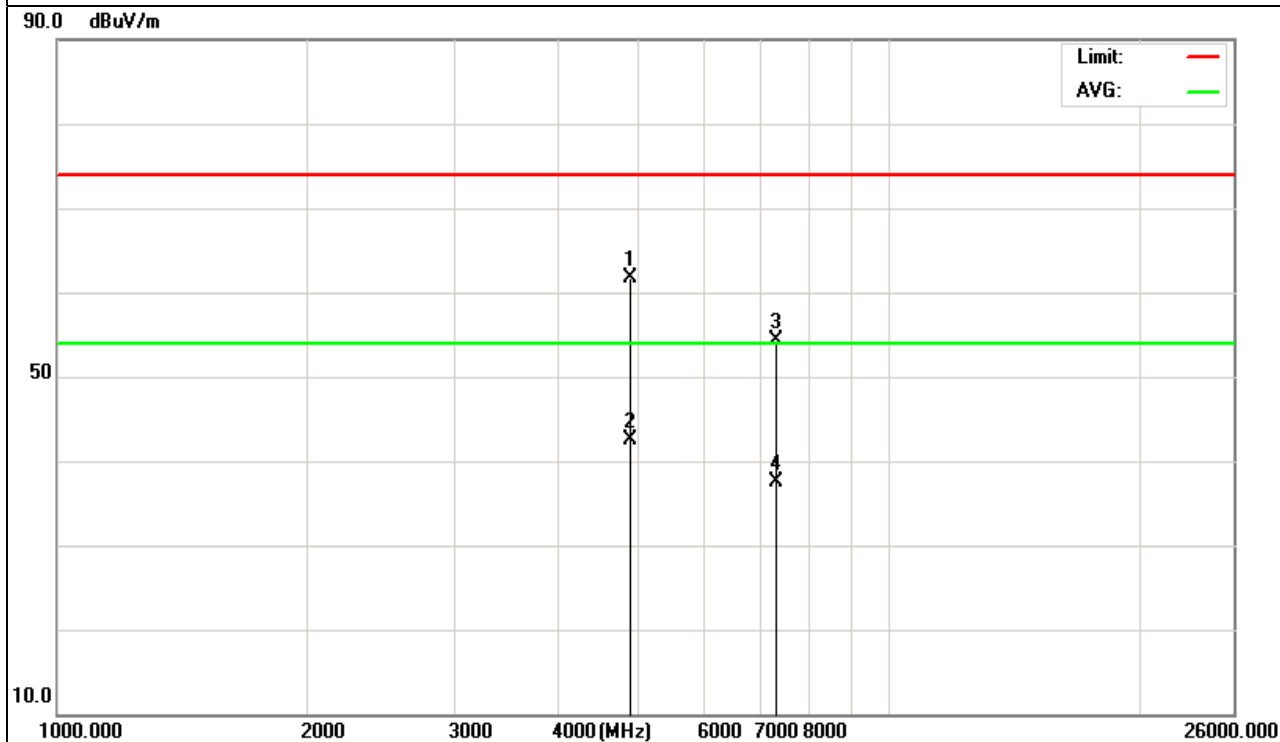


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.158	51.21	10.40	61.61	74.00	-12.39	peak
4874.158	32.12	10.40	42.52	54.00	-11.48	AVG
7311.133	41.50	12.75	54.25	74.00	-19.75	peak
7311.133	24.69	12.75	37.44	54.00	-16.56	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

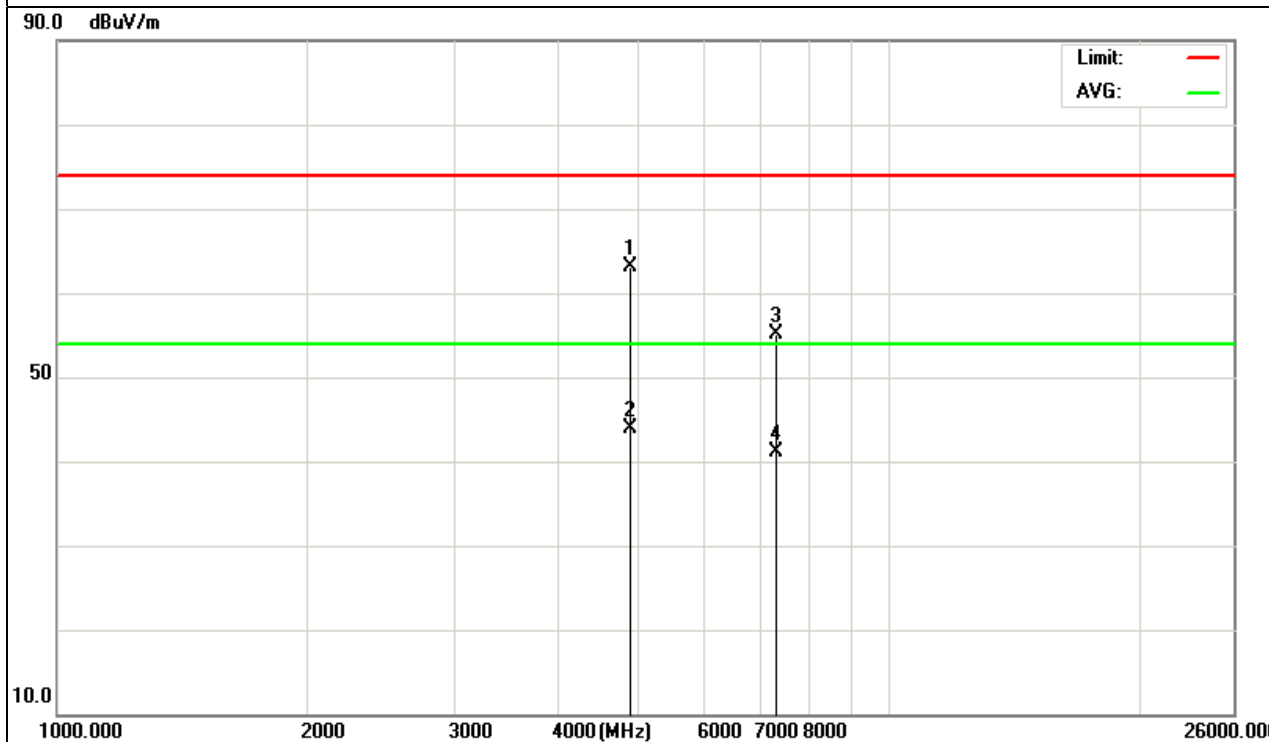


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.144	52.65	10.40	63.05	74.00	-10.95	peak
4874.144	33.51	10.40	43.91	54.00	-10.09	AVG
7311.147	42.41	12.75	55.16	74.00	-18.84	peak
7311.147	28.32	12.75	41.07	54.00	-12.93	AVG

#### Remark:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
- No emission detected above 18GHz

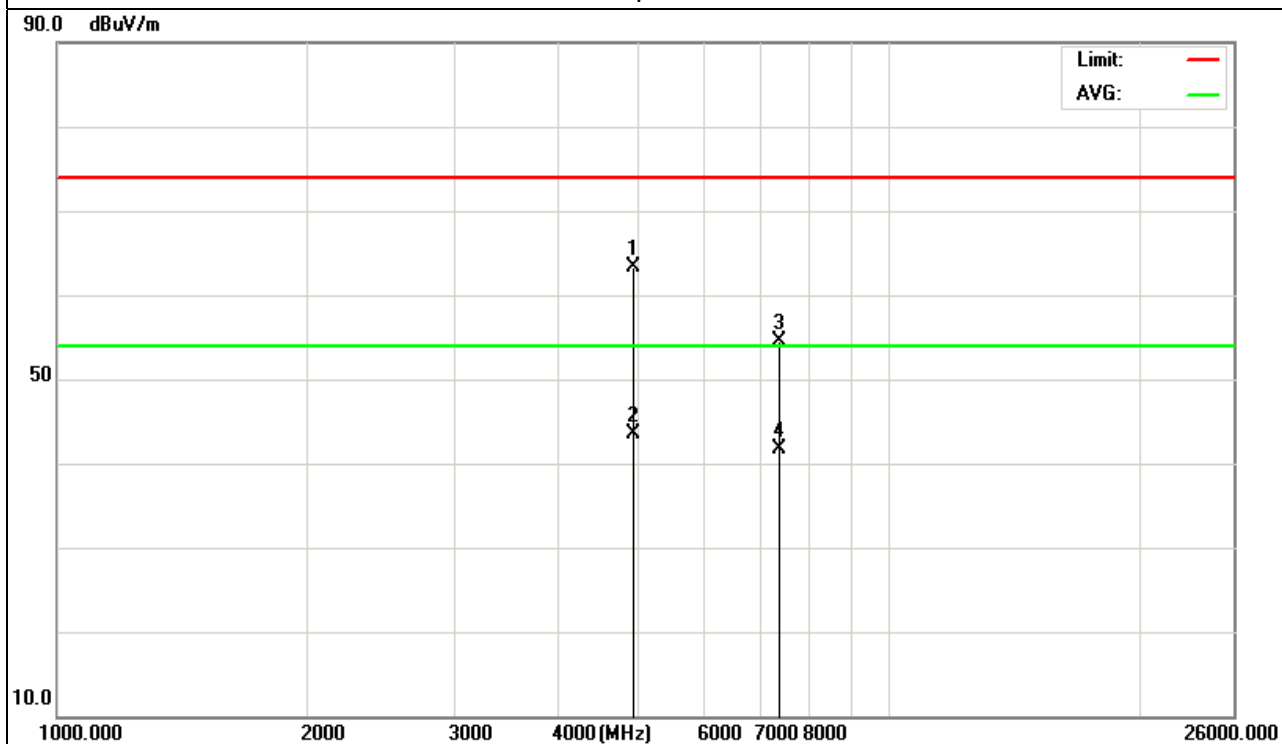


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.123	52.96	10.39	63.35	74.00	-10.65	peak
4924.123	33.05	10.39	43.44	54.00	-10.56	AVG
7386.145	41.85	12.68	54.53	74.00	-19.47	peak
7386.145	29.08	12.68	41.76	54.00	-12.24	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

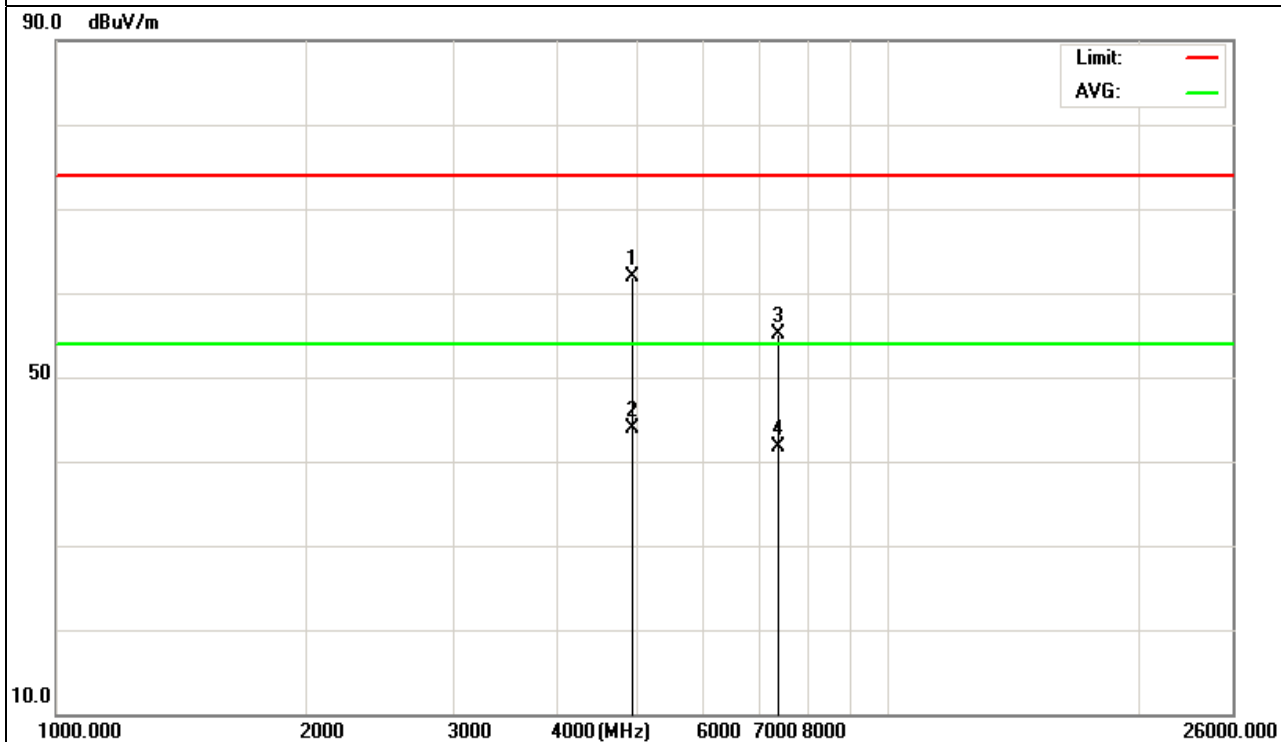


EUT :	lthink Hand View Remote Webcam	Model Name :	l1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.147	51.57	10.39	61.96	74.00	-12.04	peak
4924.147	33.43	10.39	43.82	54.00	-10.18	AVG
7386.142	42.36	12.68	55.04	74.00	-18.96	peak
7386.142	28.98	12.68	41.66	54.00	-12.34	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

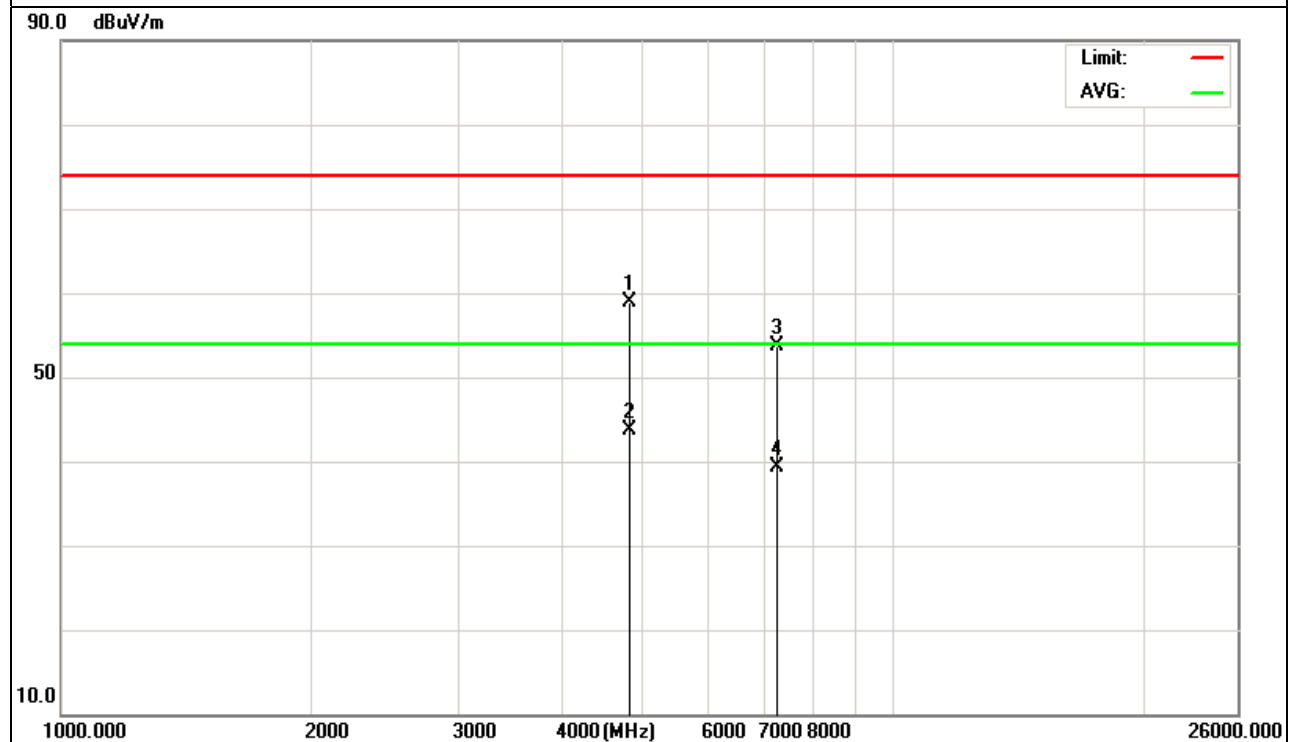


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.156	48.54	10.44	58.98	74.00	-15.02	peak
4824.156	33.31	10.44	43.75	54.00	-10.25	AVG
7236.143	41.23	12.39	53.62	74.00	-20.38	peak
7236.143	26.98	12.39	39.37	54.00	-14.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

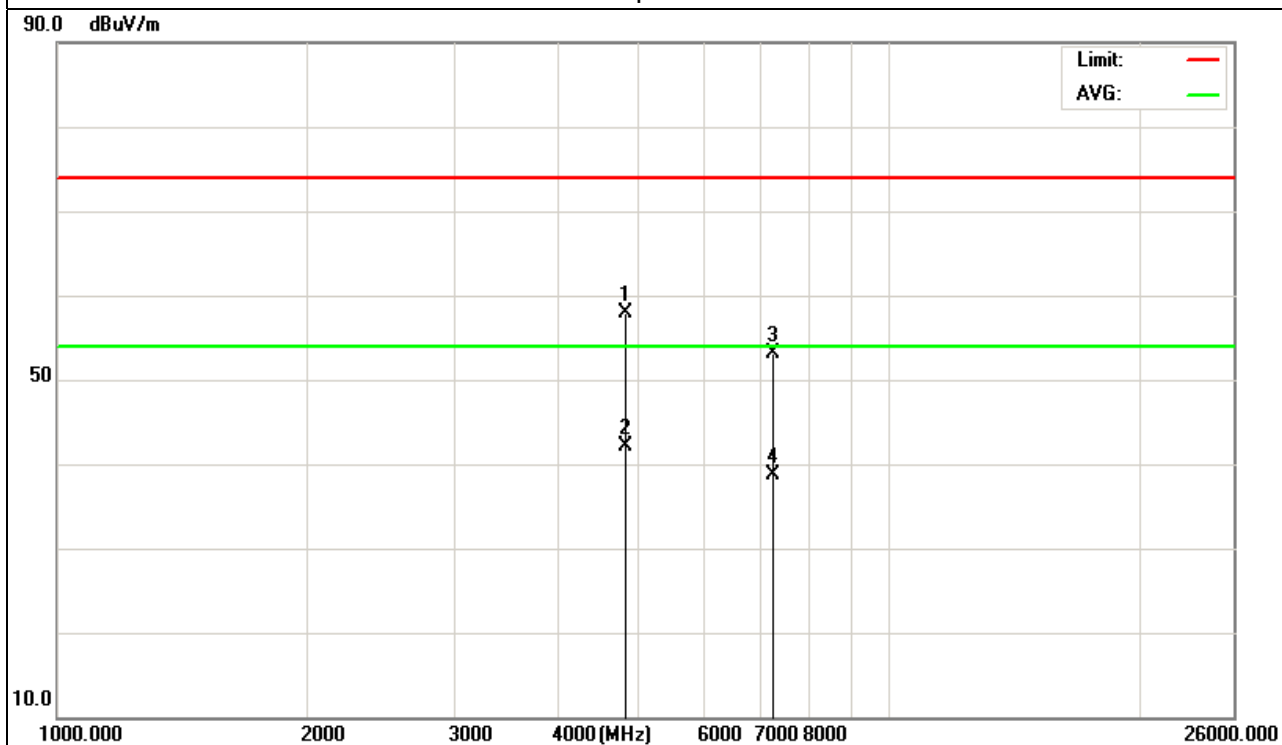


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.155	47.52	10.44	57.96	74.00	-16.04	peak
4824.155	31.62	10.44	42.06	54.00	-11.94	AVG
7236.227	40.69	12.39	53.08	74.00	-20.92	peak
7236.227	26.31	12.39	38.70	54.00	-15.30	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

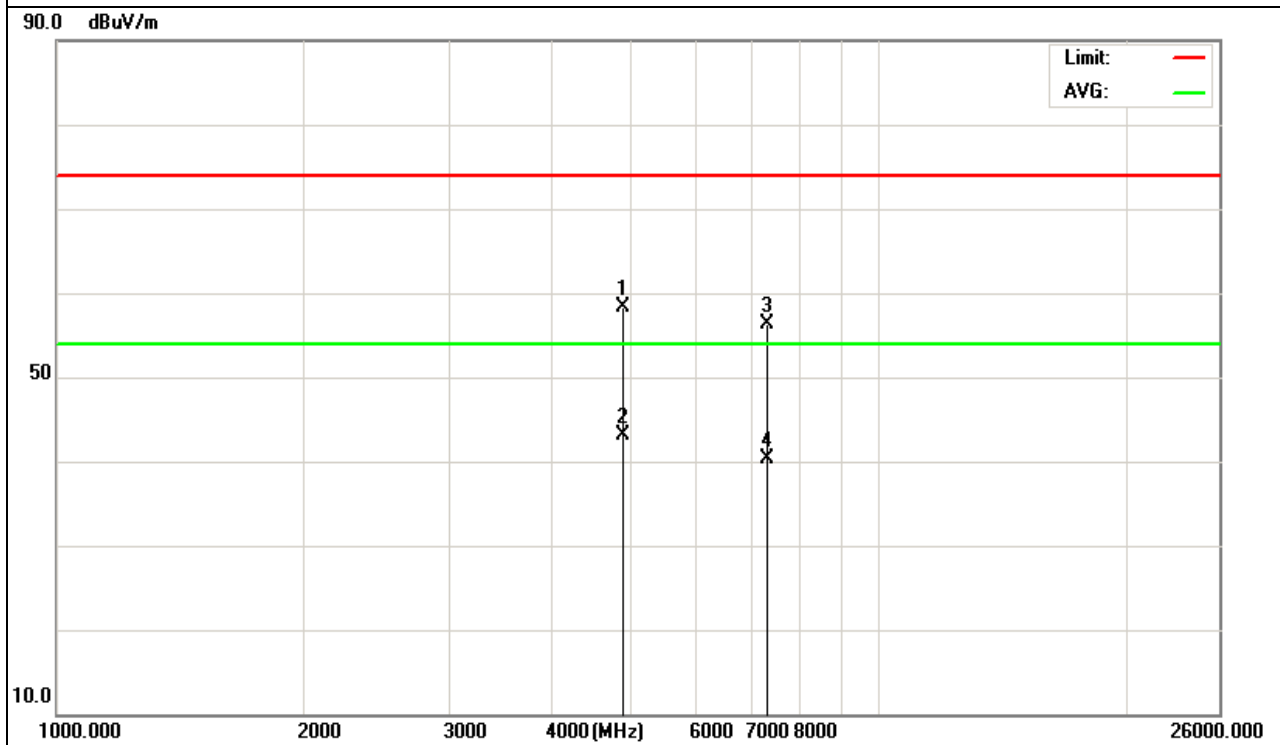


EUT :	lthink Hand View Remote Webcam	Model Name :	l1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.151	47.93	10.40	58.33	74.00	-15.67	peak
4874.151	32.69	10.40	43.09	54.00	-10.91	AVG
7311.138	43.53	12.75	56.28	74.00	-17.72	peak
7311.138	27.49	12.75	40.24	54.00	-13.76	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



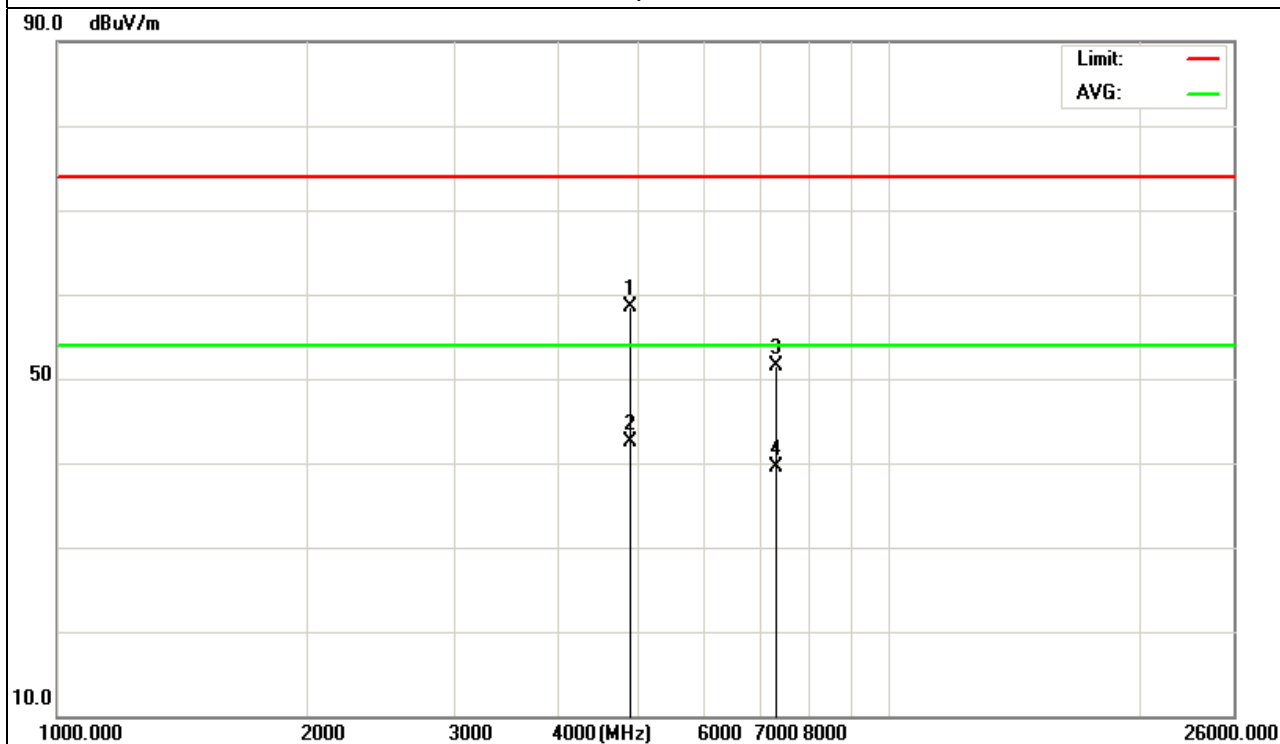


EUT :	lthink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.141	48.12	10.40	58.52	74.00	-15.48	peak
4874.141	32.15	10.40	42.55	54.00	-11.45	AVG
7311.176	38.73	12.75	51.48	74.00	-22.52	peak
7311.176	26.67	12.75	39.42	54.00	-14.58	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

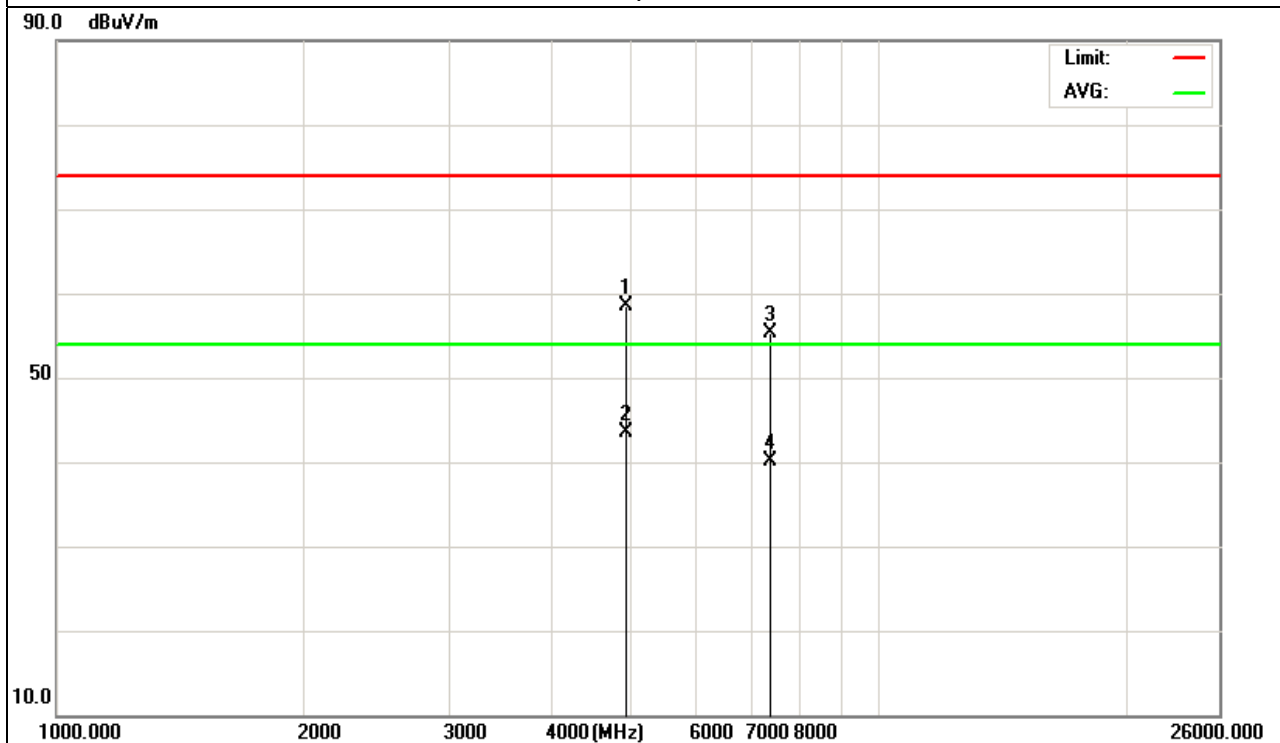


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.138	48.12	10.39	58.51	74.00	-15.49	peak
4924.138	33.13	10.39	43.52	54.00	-10.48	AVG
7386.149	42.56	12.68	55.24	74.00	-18.76	peak
7386.149	27.46	12.68	40.14	54.00	-13.86	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

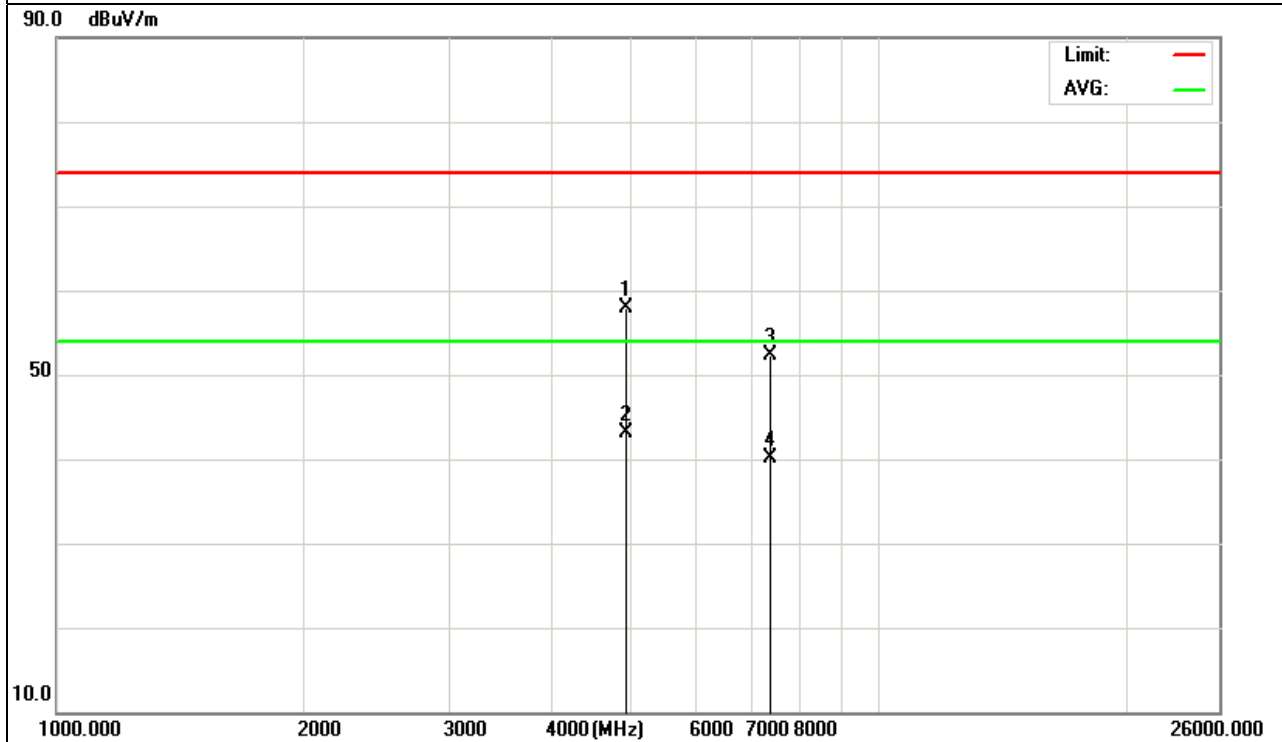


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.157	47.56	10.39	57.95	74.00	-16.05	peak
4924.157	32.74	10.39	43.13	54.00	-10.87	AVG
7386.132	39.56	12.68	52.24	74.00	-21.76	peak
7386.132	27.46	12.68	40.14	54.00	-13.86	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

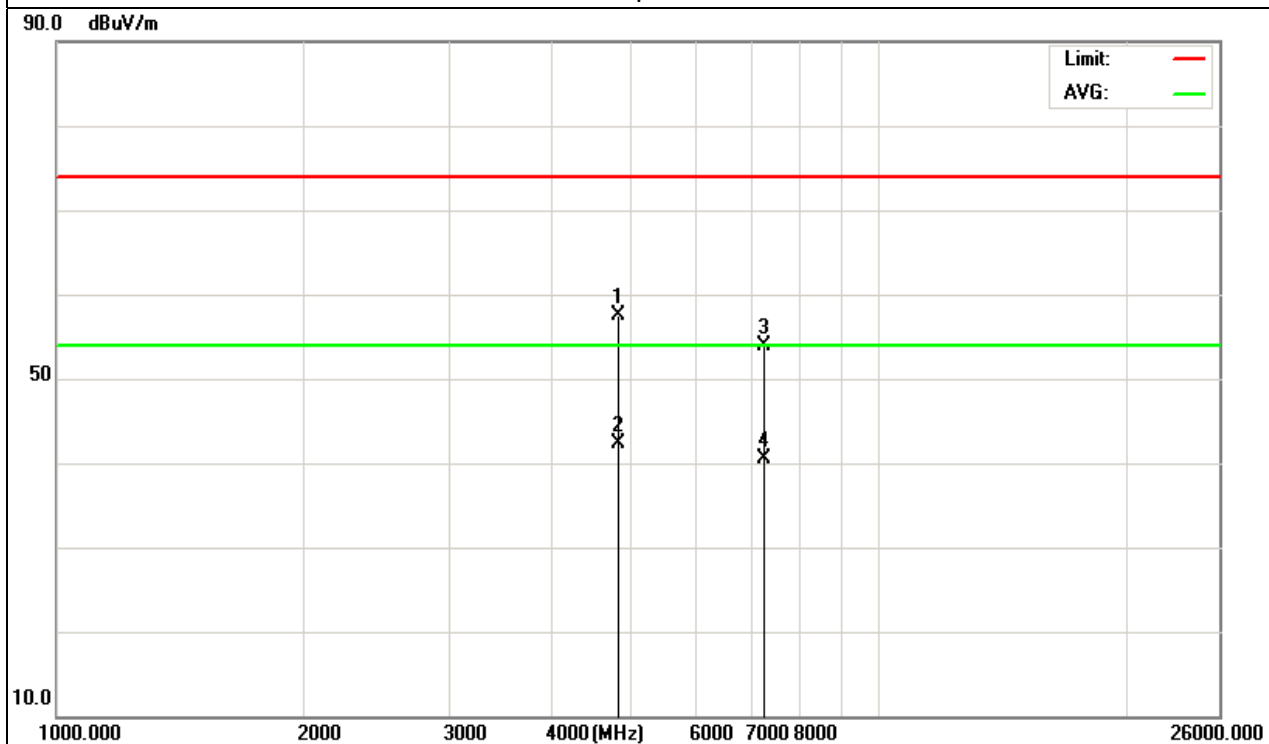


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11n (20)Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.142	47.11	10.44	57.55	74.00	-16.45	peak
4824.142	31.93	10.44	42.37	54.00	-11.63	AVG
7236.126	41.54	12.39	53.93	74.00	-20.07	peak
7236.126	28.05	12.39	40.44	54.00	-13.56	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

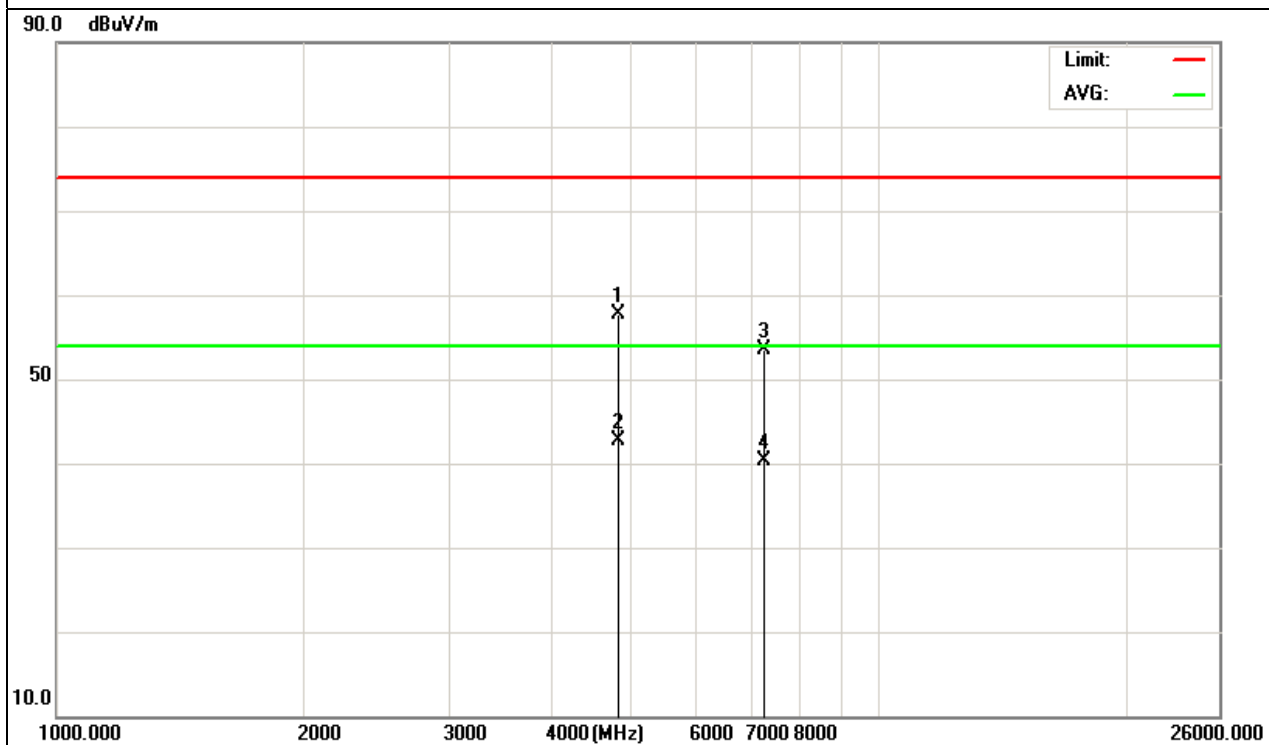


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11n (20)Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4824.143	47.27	10.44	57.71	74.00	-16.29	peak
4824.143	32.23	10.44	42.67	54.00	-11.33	AVG
7236.140	41.17	12.39	53.56	74.00	-20.44	peak
7236.140	27.95	12.39	40.34	54.00	-13.66	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

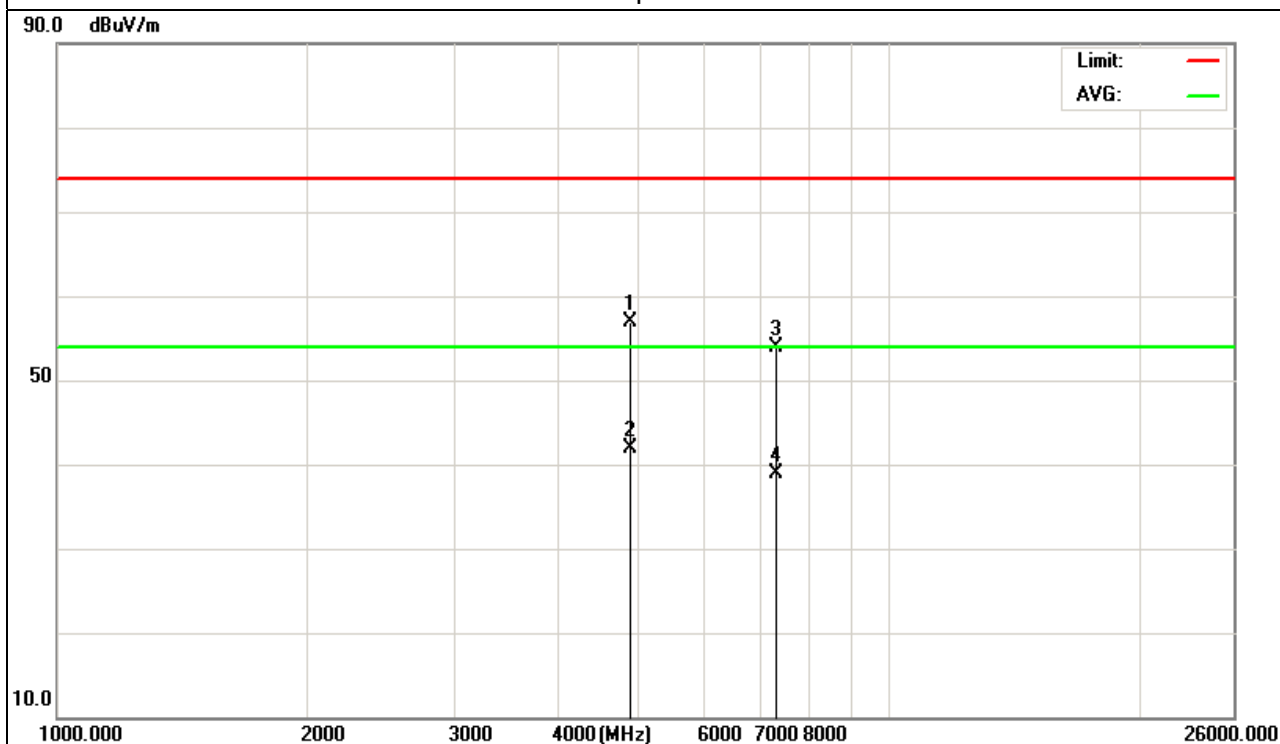


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6(802.11n (20)Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.163	46.55	10.40	56.95	74.00	-17.05	peak
4874.163	31.56	10.40	41.96	54.00	-12.04	AVG
7311.165	41.13	12.75	53.88	74.00	-20.12	peak
7311.165	26.23	12.75	38.98	54.00	-15.02	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

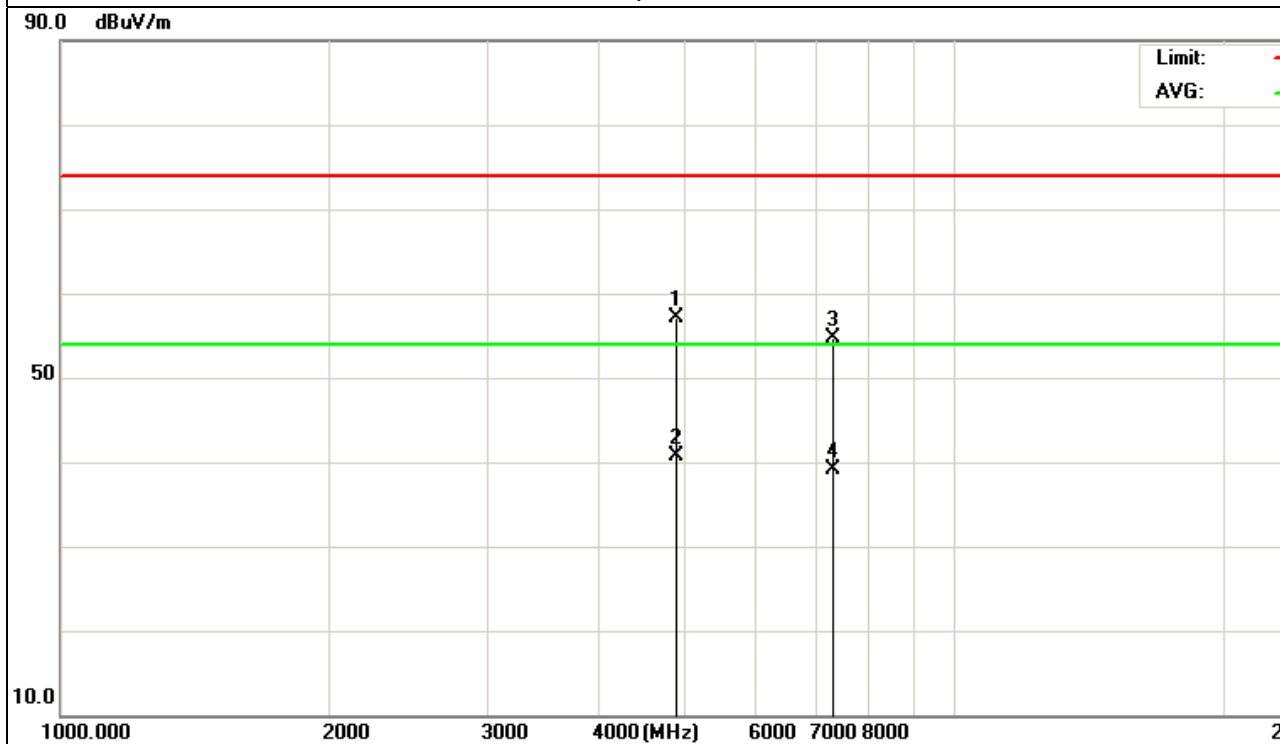


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH6(802.11n (20)Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874.162	46.73	10.40	57.13	74.00	-16.87	peak
4874.162	30.35	10.40	40.75	54.00	-13.25	AVG
7311.127	41.99	12.75	54.74	74.00	-19.26	peak
7311.127	26.26	12.75	39.01	54.00	-14.99	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

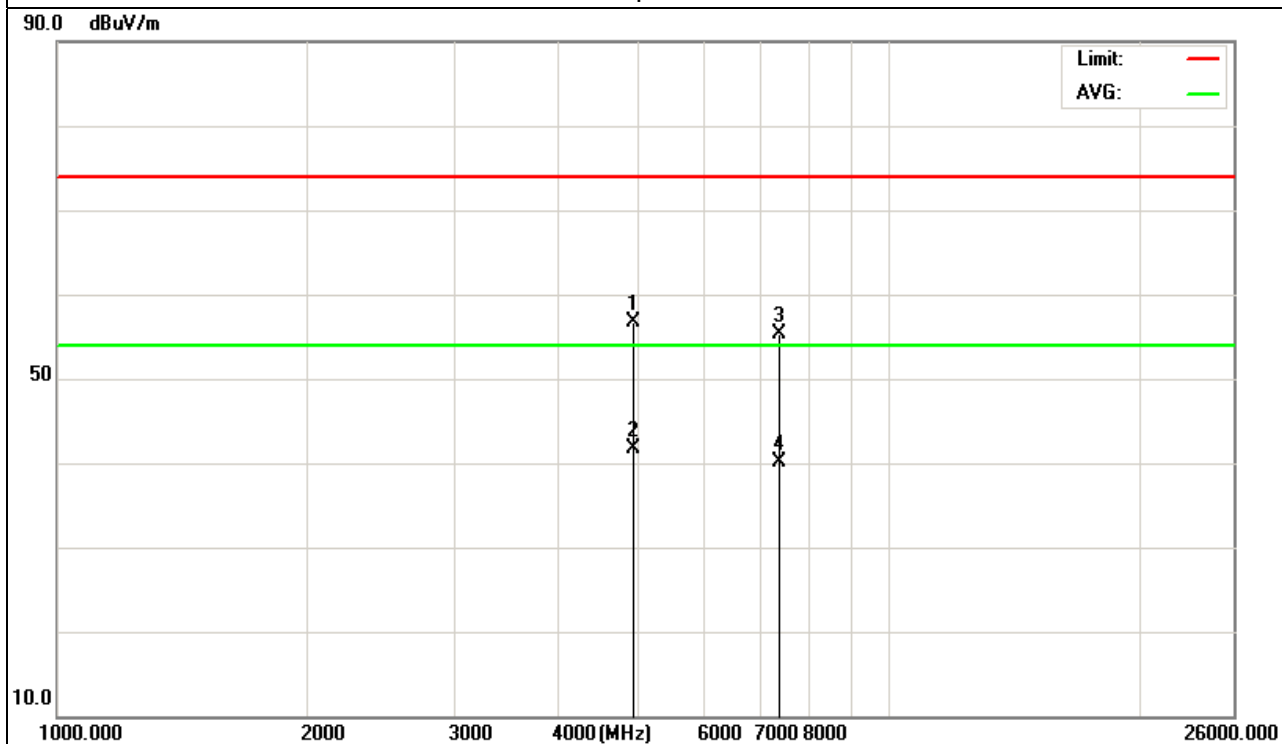


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11(802.11n (20)Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.155	46.32	10.39	56.71	74.00	-17.29	peak
4924.155	31.35	10.39	41.74	54.00	-12.26	AVG
7386.173	42.61	12.68	55.29	74.00	-18.71	peak
7386.173	27.51	12.68	40.19	54.00	-13.81	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



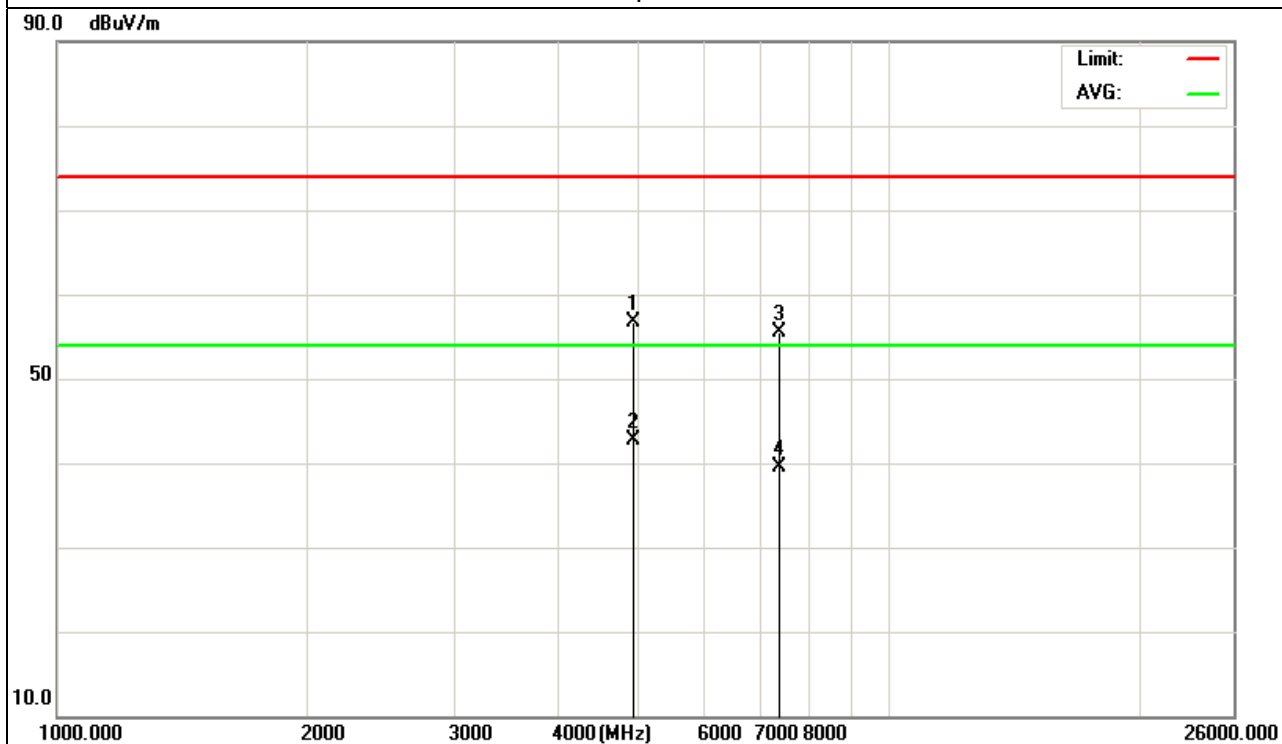


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11(802.11n (20)Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4924.141	46.25	10.39	56.64	74.00	-17.36	peak
4924.141	32.36	10.39	42.75	54.00	-11.25	AVG
7386.189	42.89	12.68	55.57	74.00	-18.43	peak
7386.189	26.74	12.68	39.42	54.00	-14.58	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

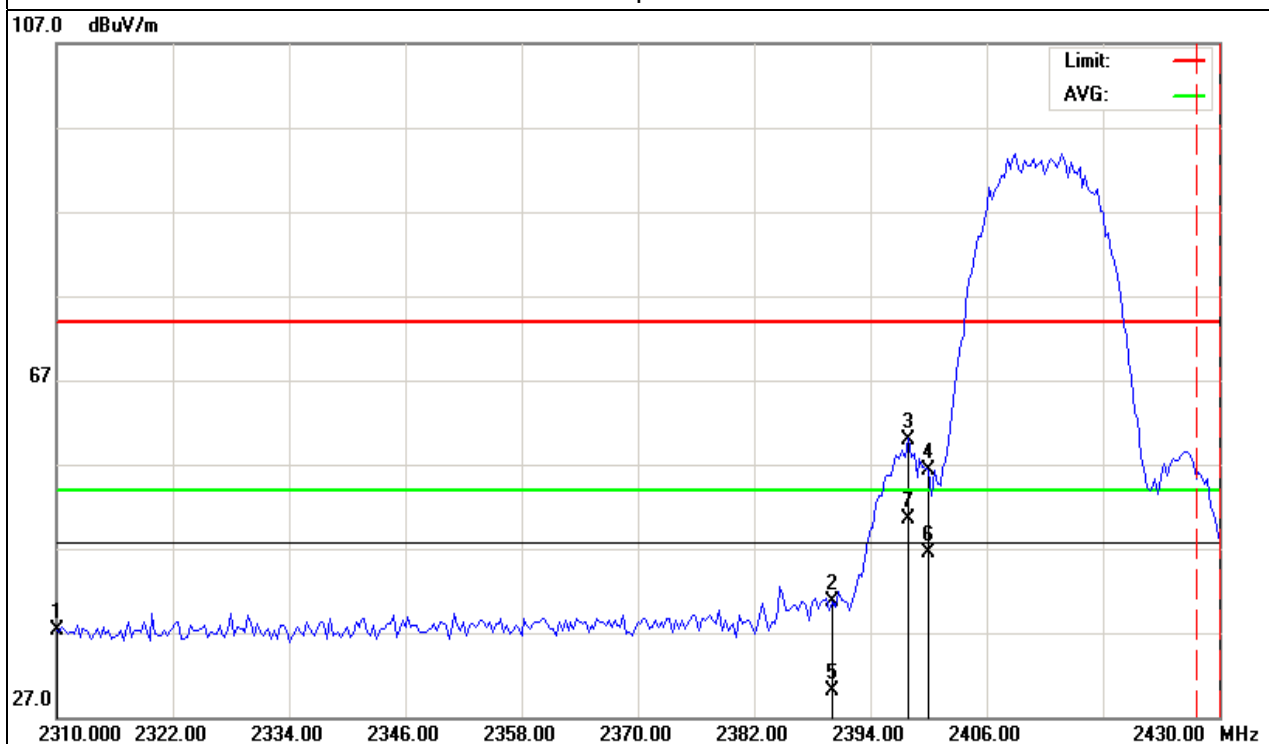


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	50.27	-12.89	37.38	74.00	-36.62	peak
2390.000	53.86	-13.06	40.80	74.00	-33.20	peak
2397.900	73.00	-13.00	60.00	74.00	-14.00	peak
2400.000	69.22	-12.99	56.23	74.00	-17.77	peak
2390.000	43.26	-13.06	30.20	54.00	-23.80	AVG
2400.000	59.43	-12.99	46.44	54.00	-7.56	AVG
2397.900	63.42	-13.00	50.42	54.00	-3.58	AVG

Remark:

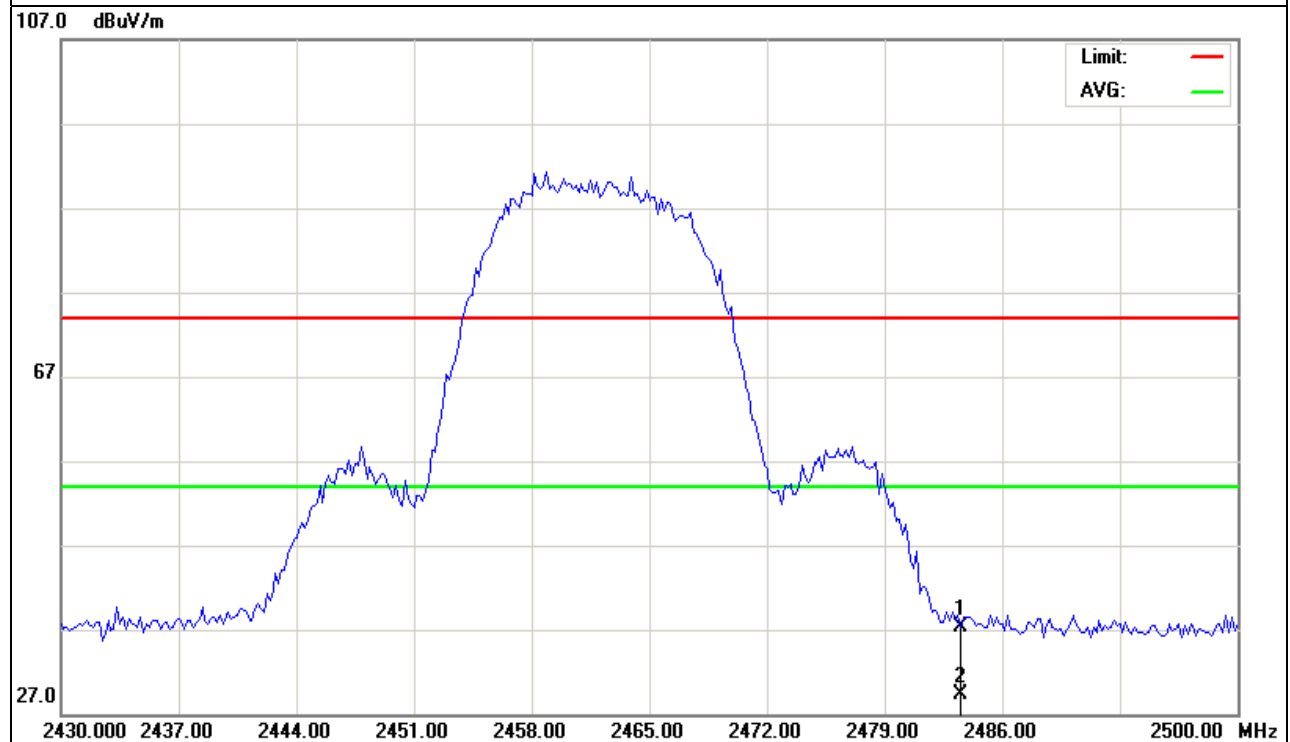
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	50.05	-12.78	37.27	74.00	-36.73	peak
2483.500	42.12	-12.78	29.34	54.00	-24.66	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



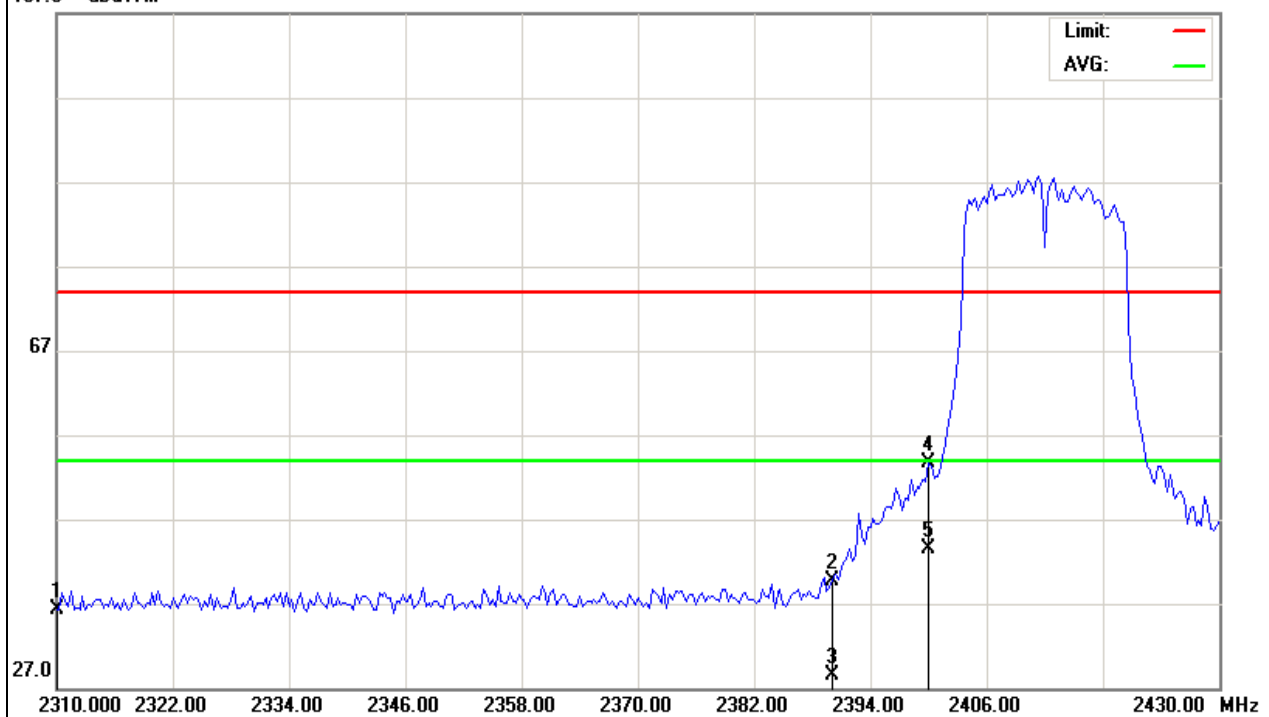
EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	49.23	-12.89	36.34	74.00	-37.66	peak
2390.000	52.85	-13.06	39.79	74.00	-34.21	peak
2390.000	41.56	-13.06	28.50	54.00	-25.50	AVG
2400.000	66.76	-12.99	53.77	74.00	-20.23	peak
2400.000	56.45	-12.99	43.46	54.00	-10.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

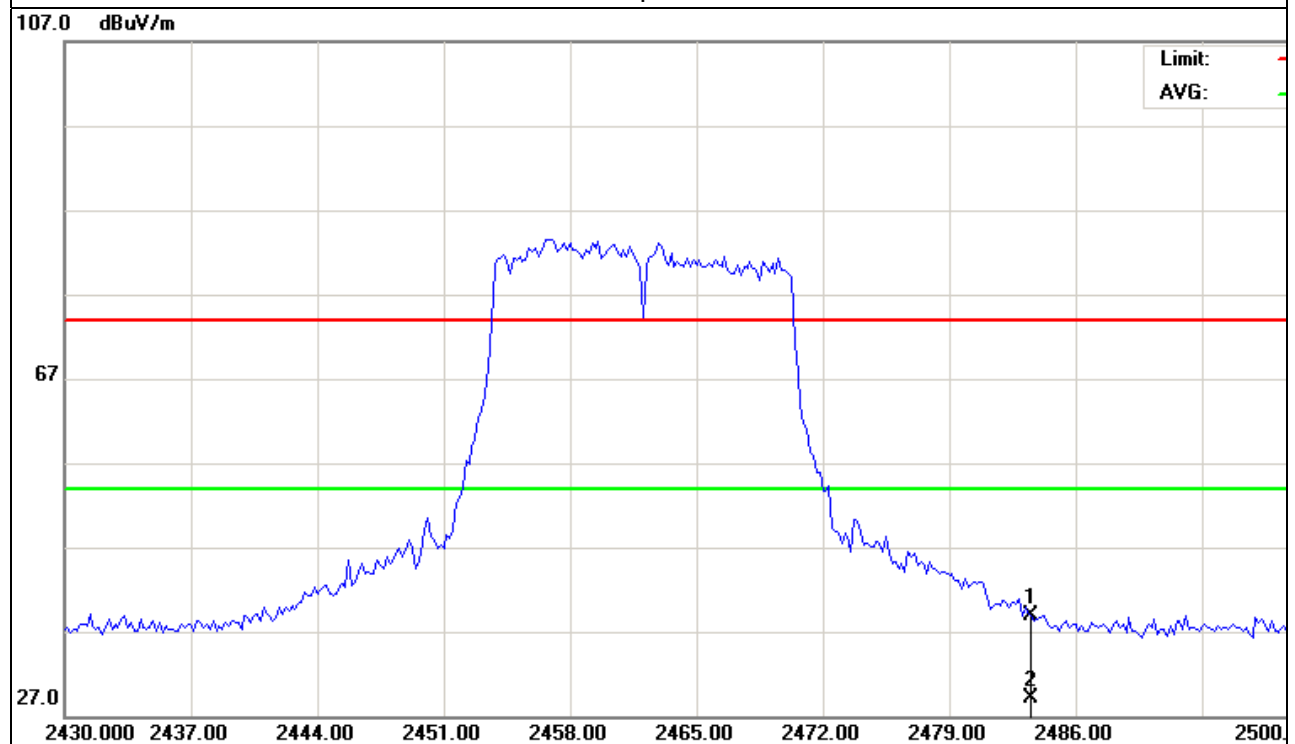
107.0 dBμV/m



EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	51.67	-12.78	38.89	74.00	-35.11	peak
2483.500	41.96	-12.78	29.18	54.00	-24.82	AVG

Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

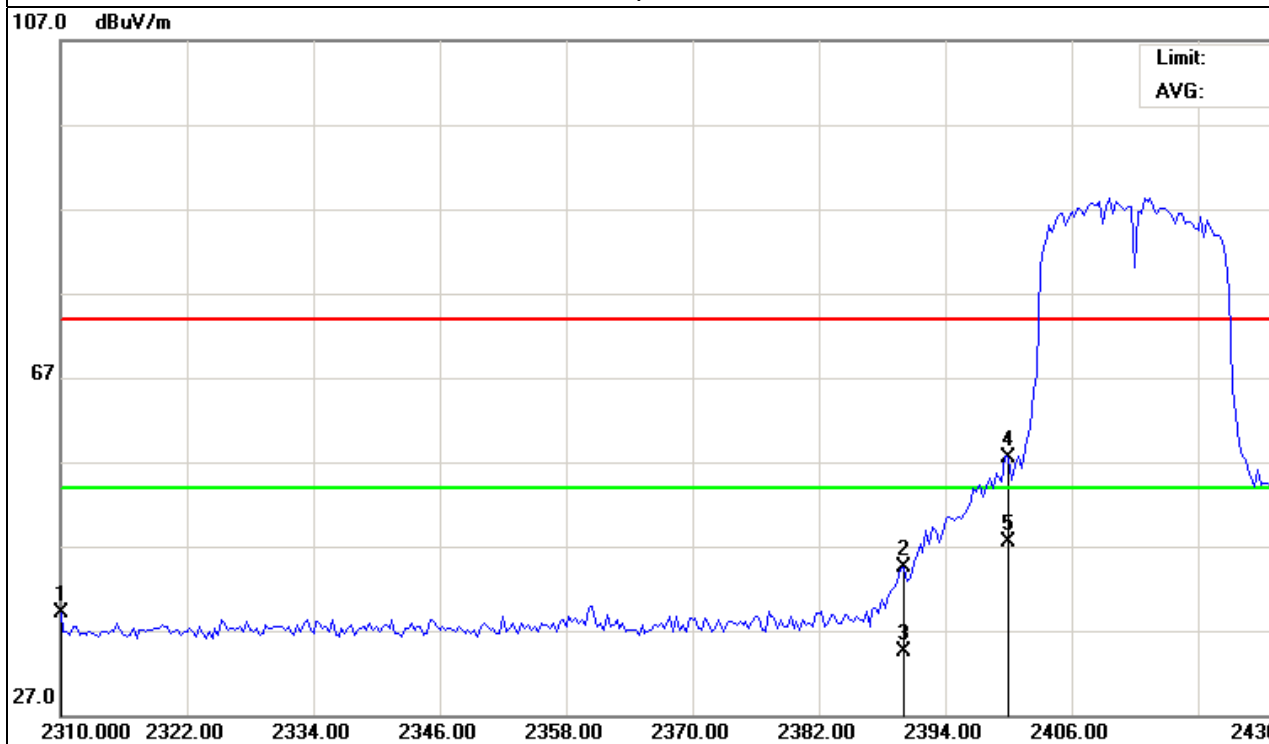


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11n (20)Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.000	51.94	-12.89	39.05	74.00	-34.95	peak
2390.000	57.55	-13.06	44.49	74.00	-29.51	peak
2390.000	47.63	-13.06	34.57	54.00	-19.43	AVG
2400.000	70.54	-12.99	57.55	74.00	-16.45	peak
2400.000	60.51	-12.99	47.52	54.00	-6.48	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



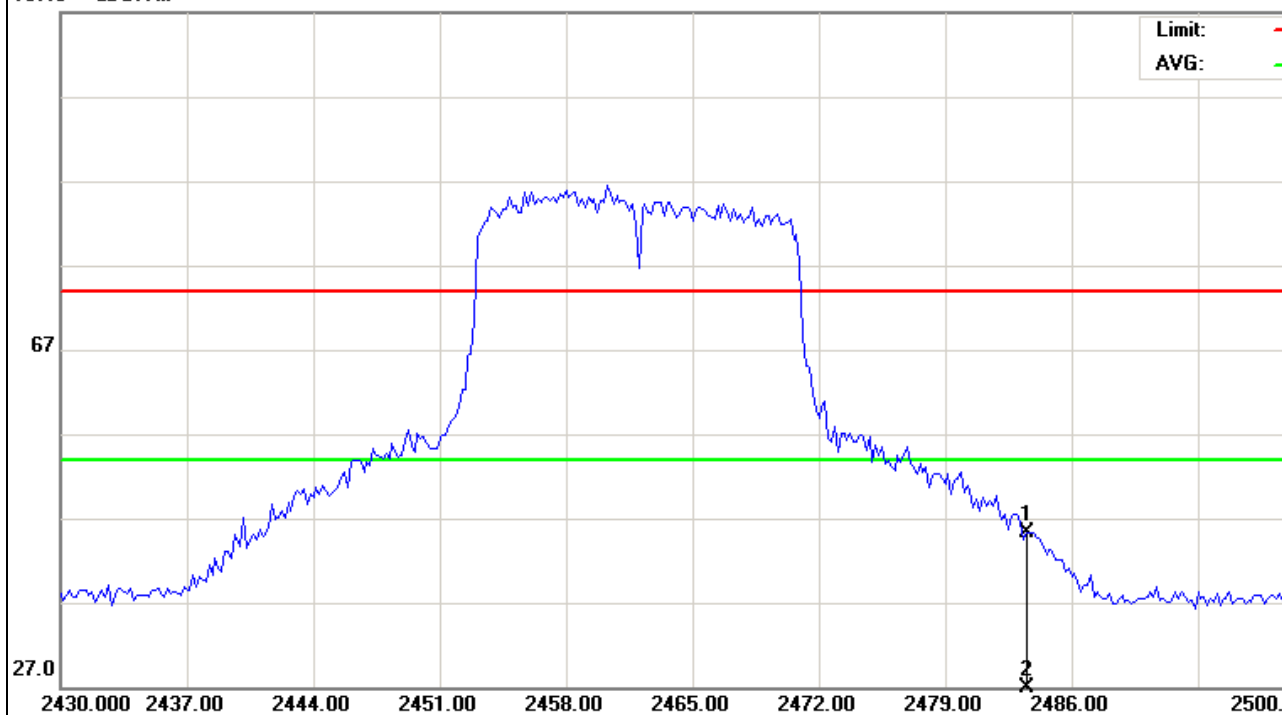
EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	CH1(802.11n (20)Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.500	58.01	-12.78	45.23	74.00	-28.77	peak
2483.500	37.23	-12.78	24.45	54.00	-29.55	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

107.0 dBμV/m



#### 4. POWER SPECTRAL DENSITY TEST

##### 4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

##### 4.1.1 TEST PROCEDURE

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

##### 4.1.2 DEVIATION FROM STANDARD

No deviation.

##### 4.1.3 TEST SETUP



##### 4.1.4 EUT OPERATION CONDITIONS

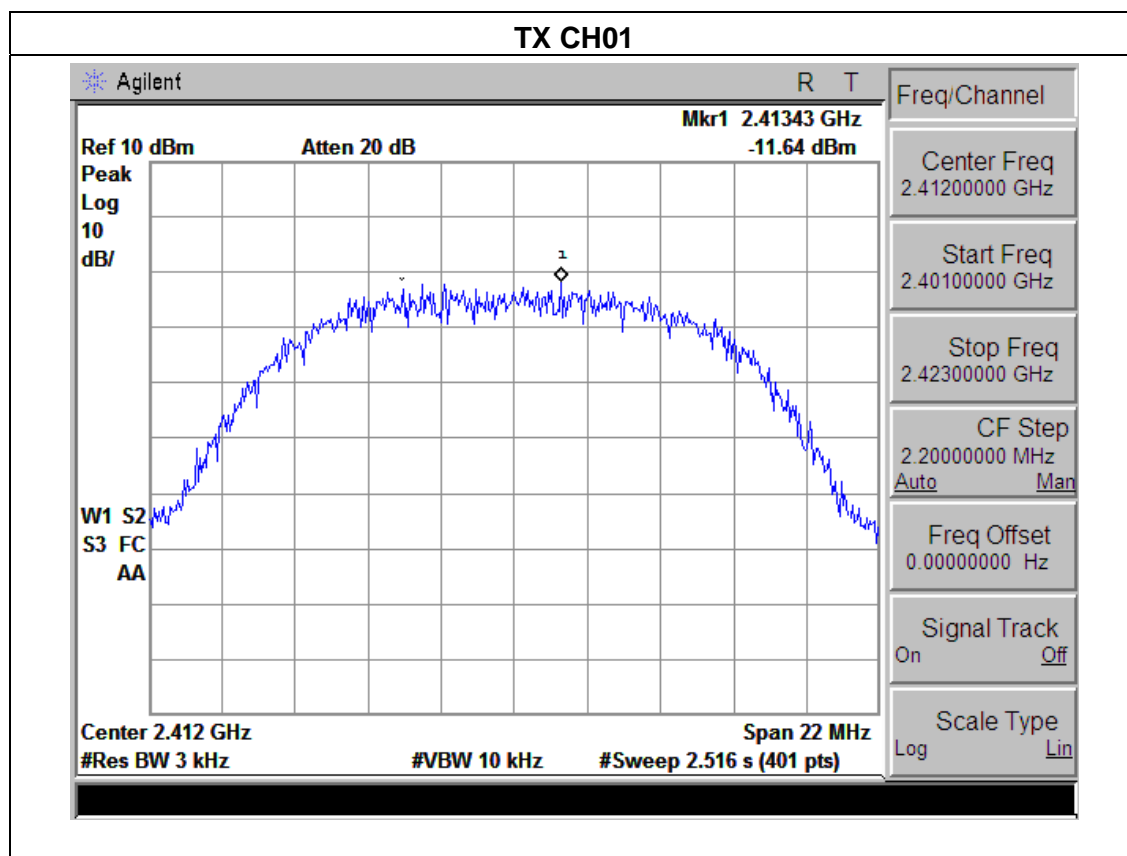
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

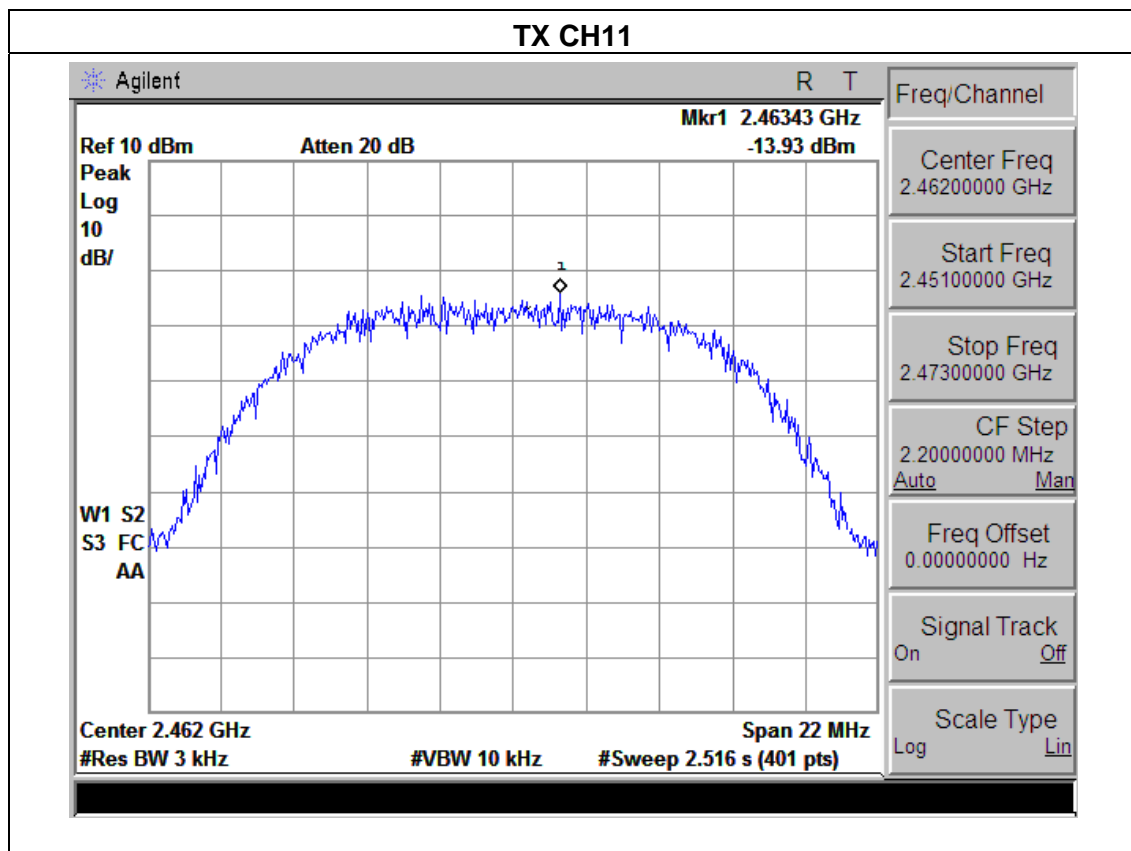
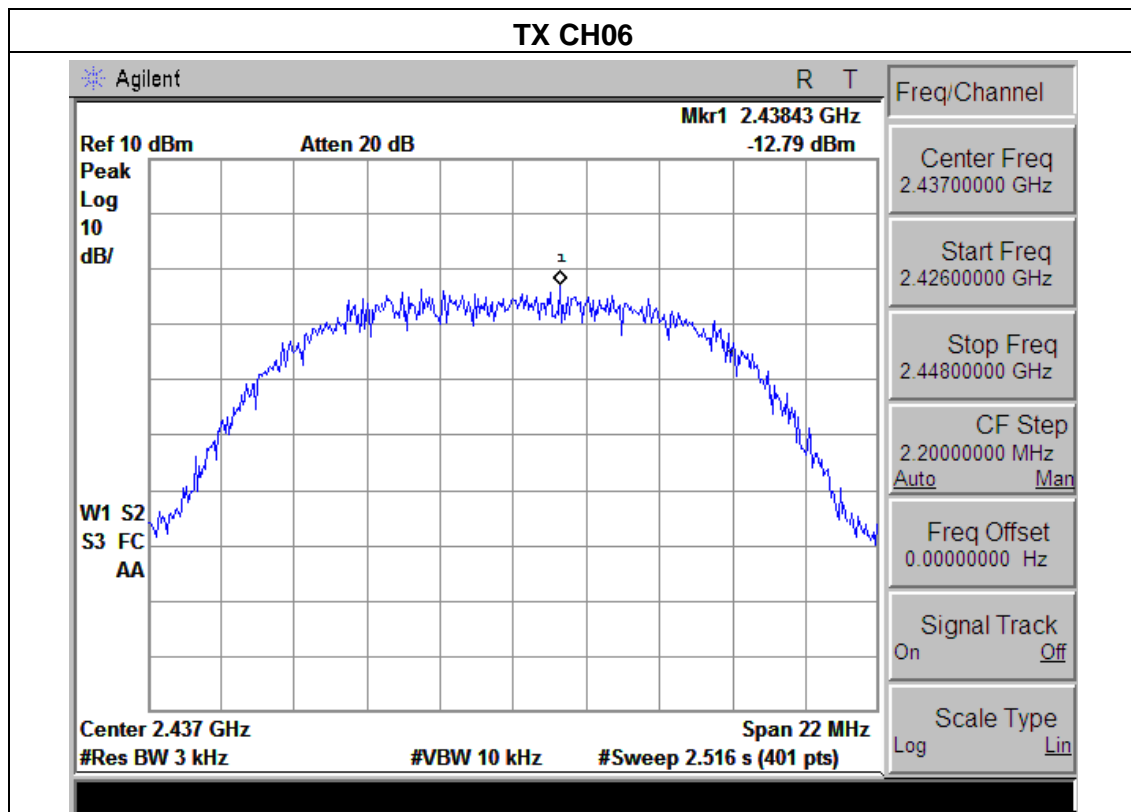


#### 4.1.5 TEST RESULTS

EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11b Mode /CH01, CH06, CH11		

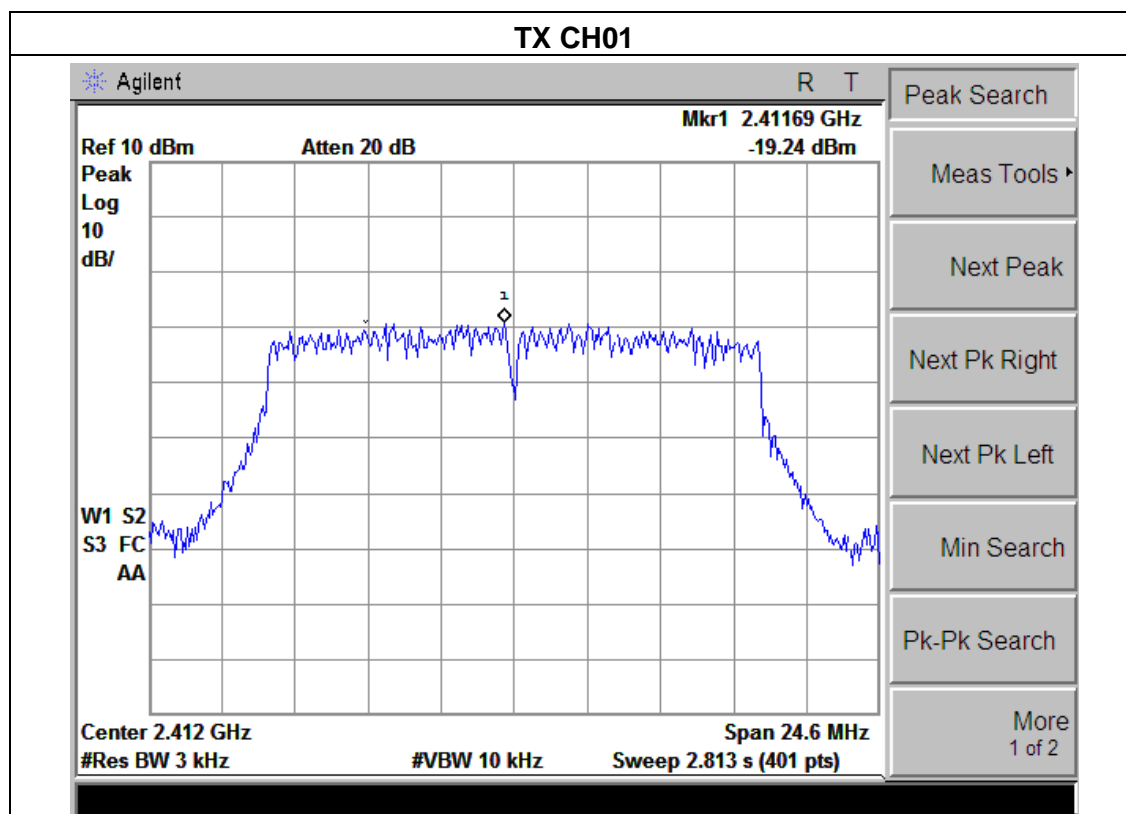
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.64	8	PASS
2437 MHz	-12.79	8	PASS
2462 MHz	-13.93	8	PASS

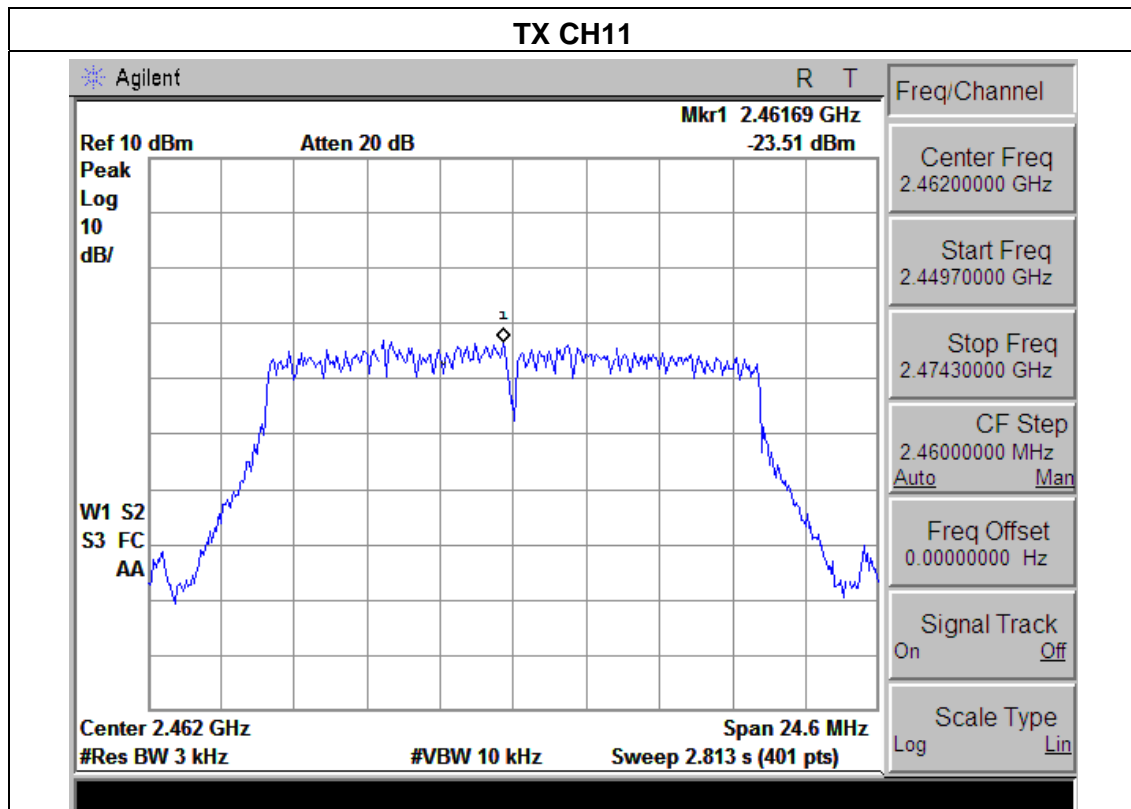
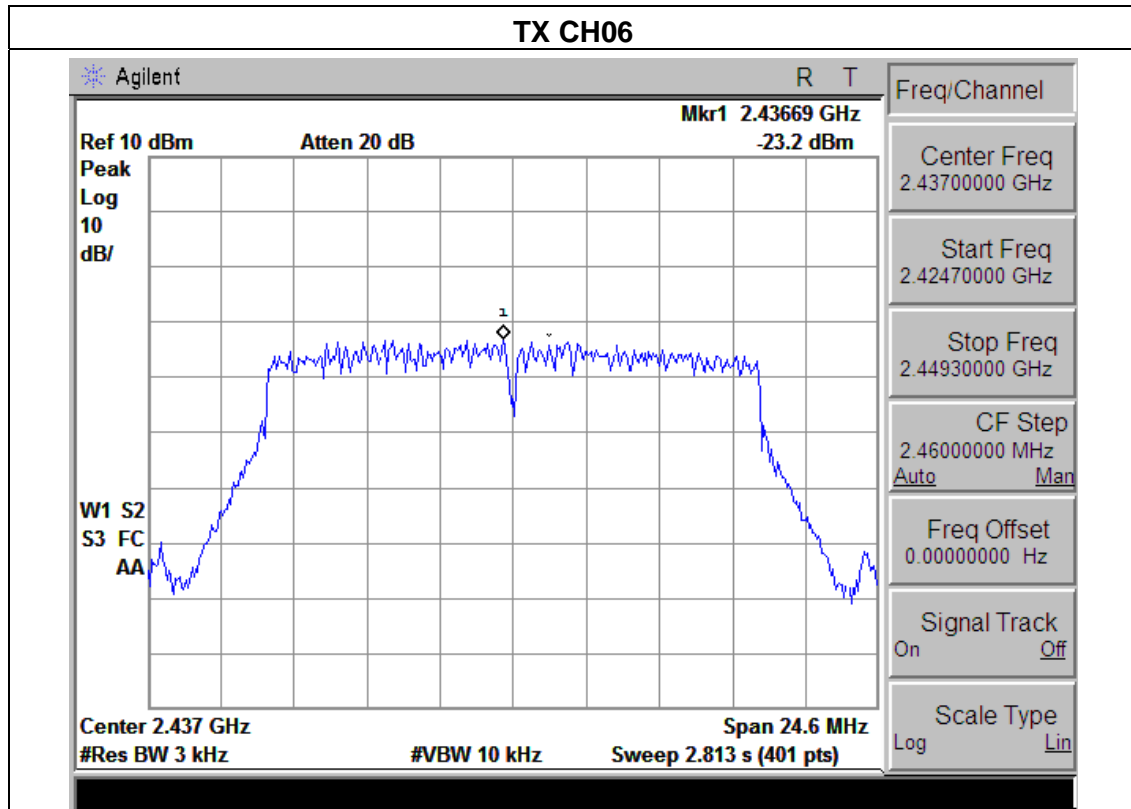




EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11g Mode /CH01, CH06, CH11		

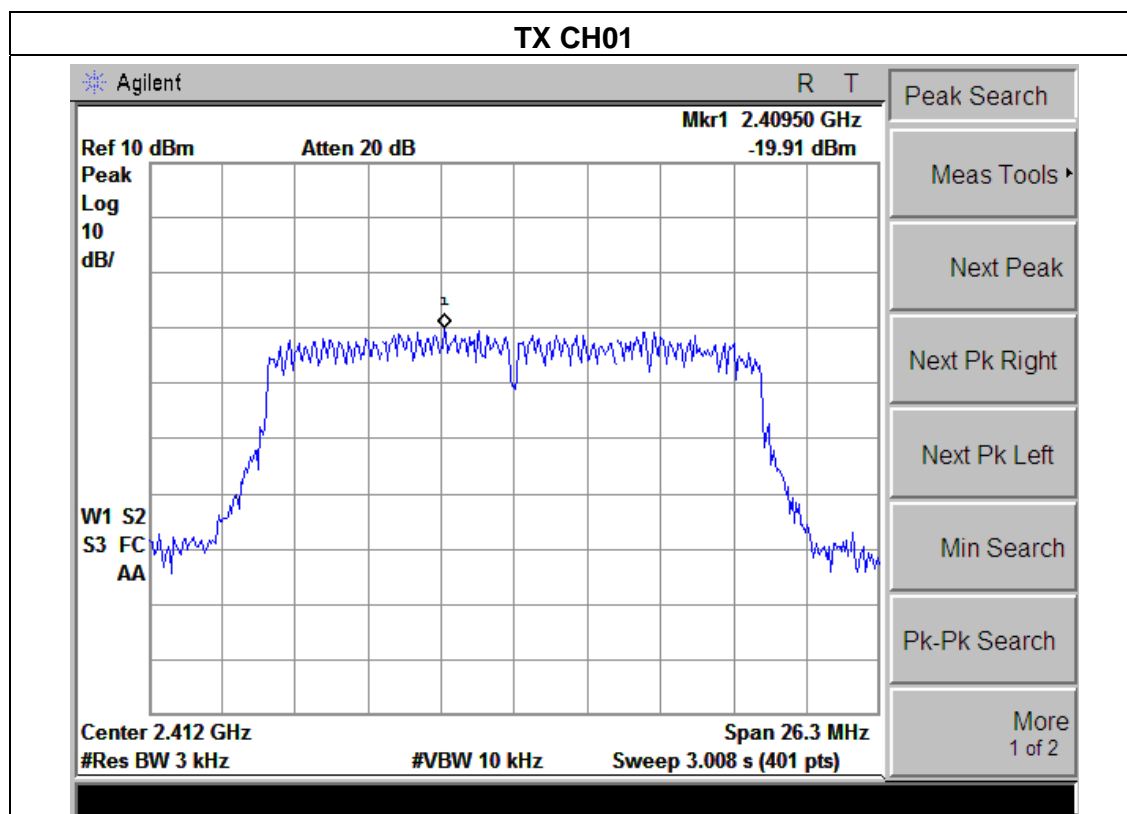
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-19.24	8	PASS
2437 MHz	-23.2	8	PASS
2462 MHz	-23.51	8	PASS



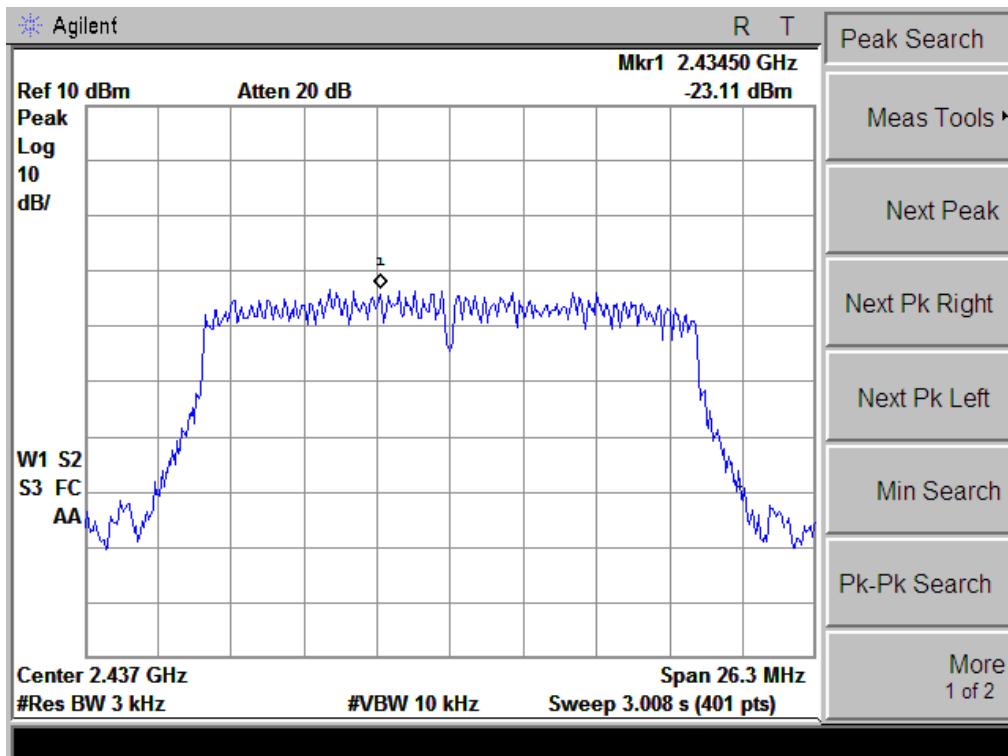


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11n(20) Mode /CH01, CH06, CH11		

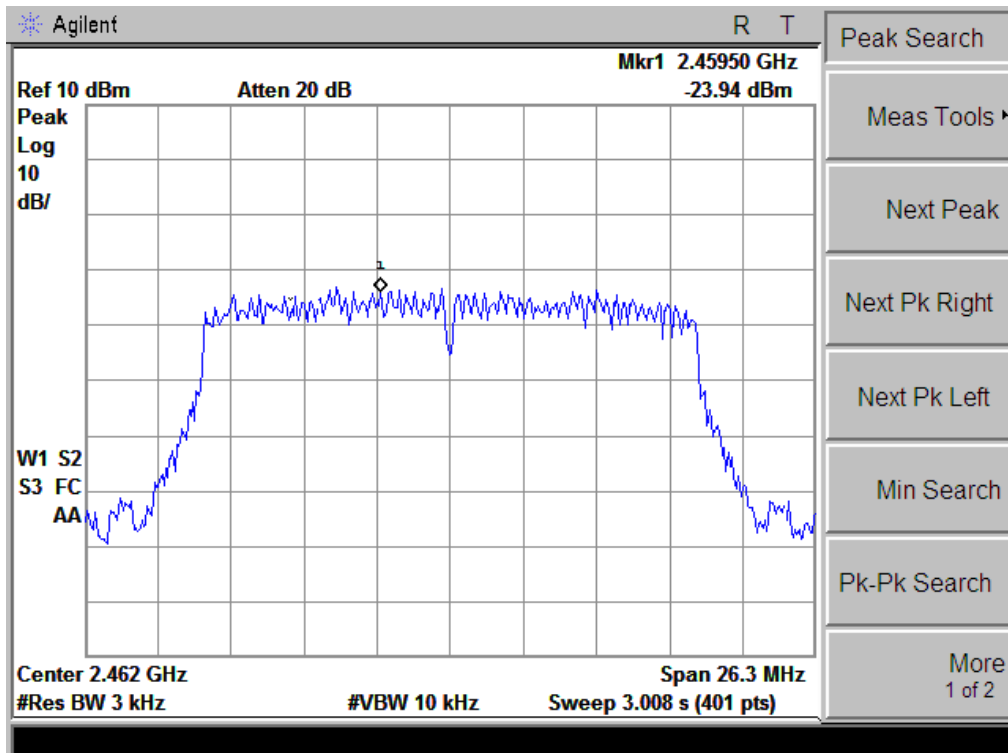
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-19.91	8	PASS
2437 MHz	-23.11	8	PASS
2462 MHz	-23.94	8	PASS



### TX CH06



### TX CH11



## 5. BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

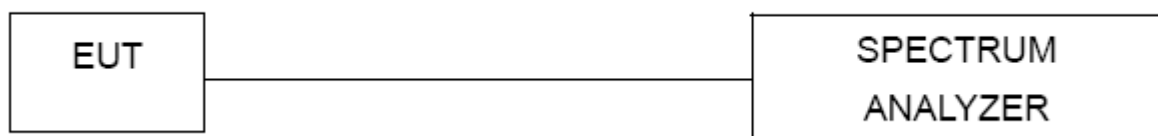
#### 5.1.1 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



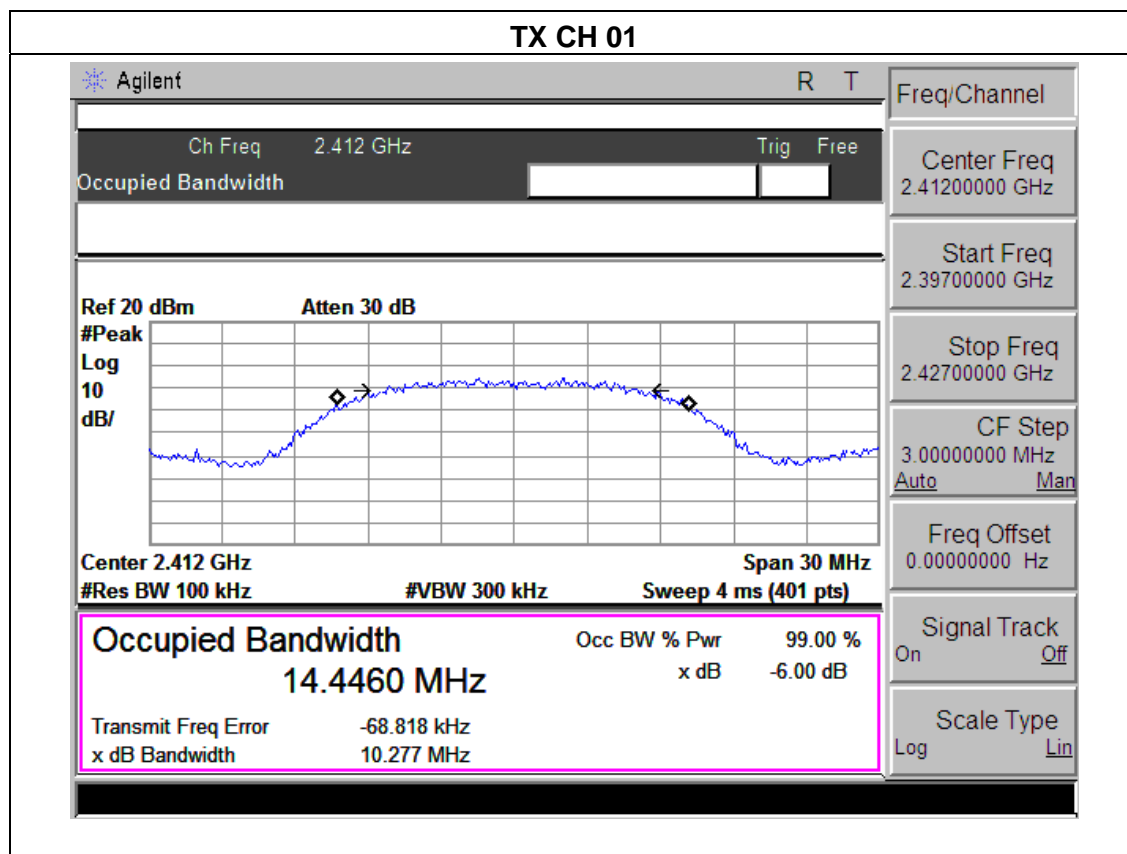
#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 5.1.5 TEST RESULTS

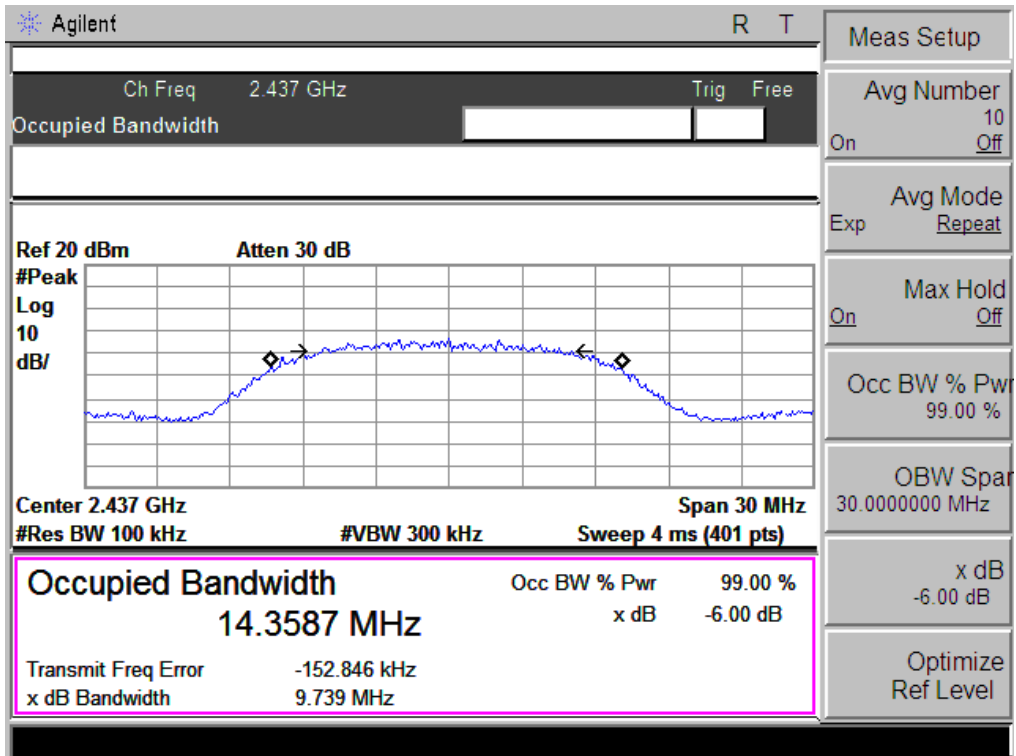
EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.227	>=500KHz	PASS
2437 MHz	9.739	>=500KHz	PASS
2462 MHz	10.251	>=500KHz	PASS

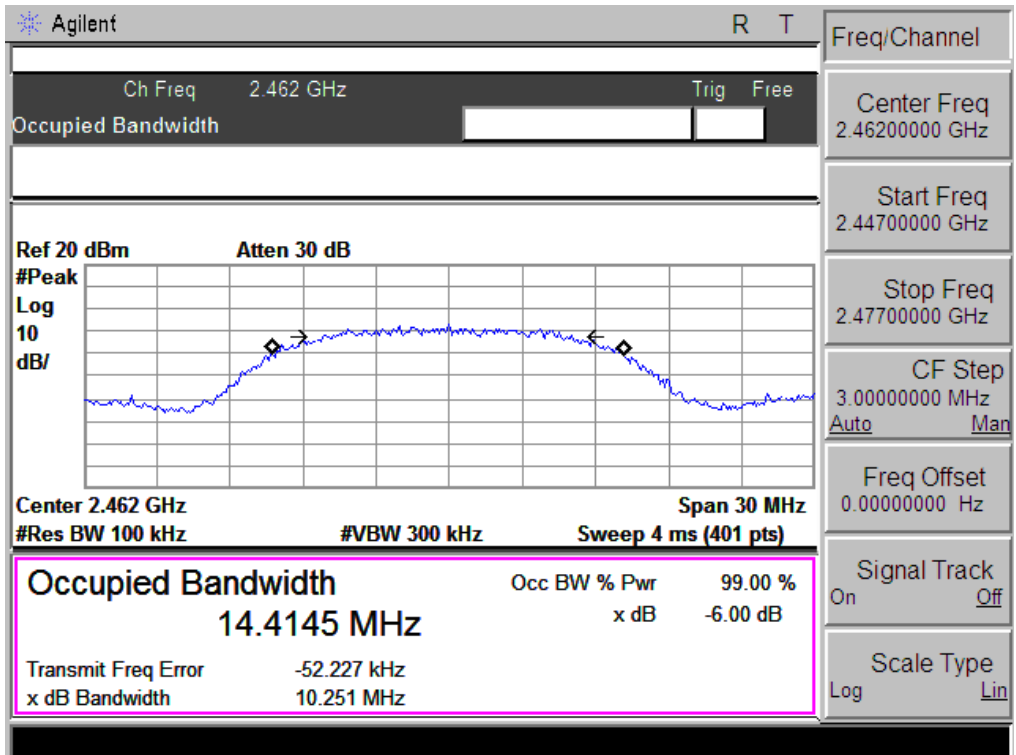




### TX CH 06

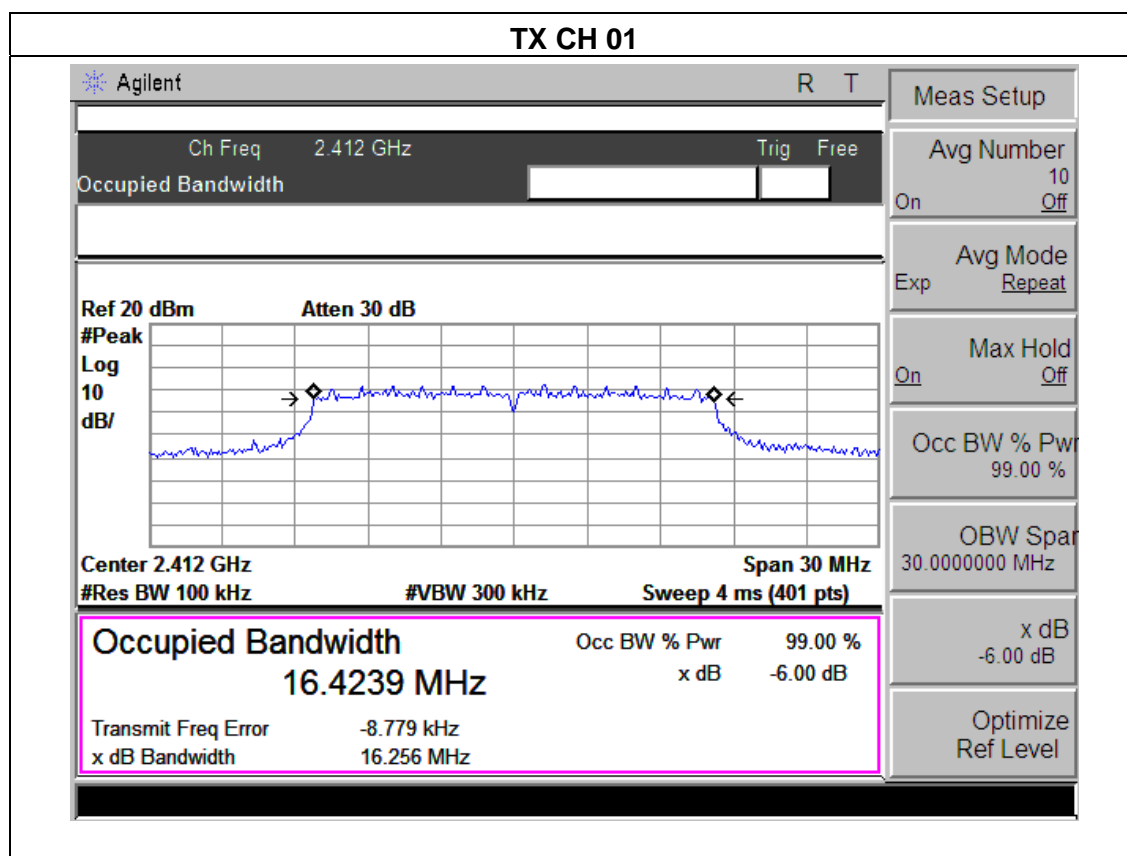


### TX CH 11

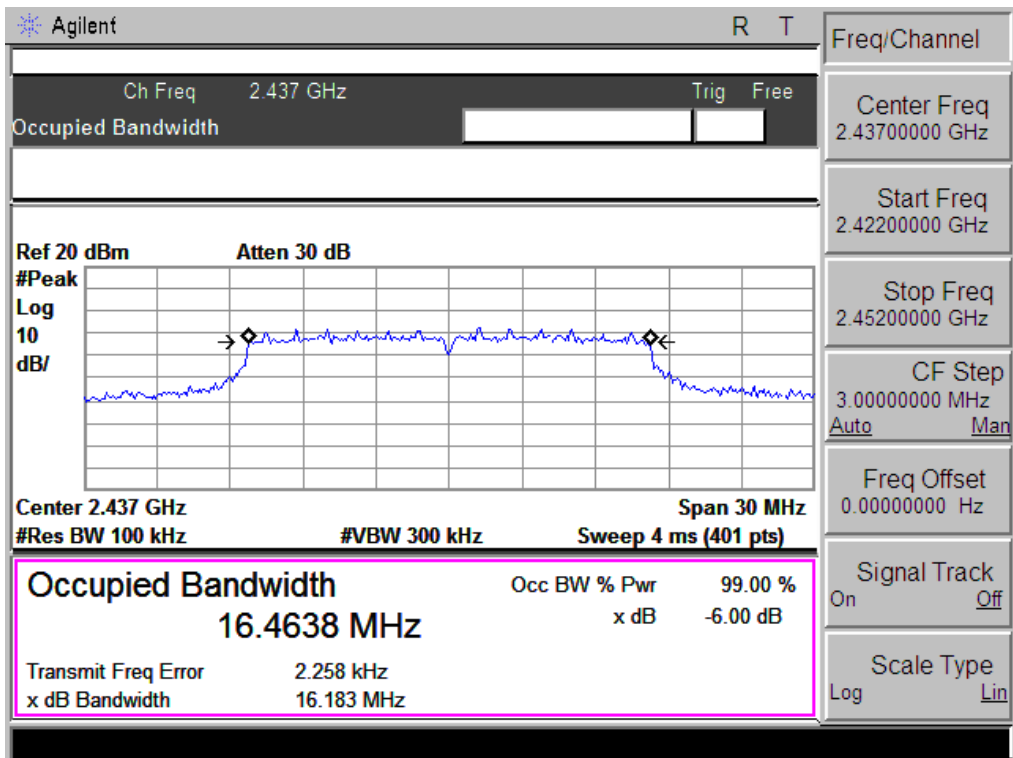


EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11g Mode /CH01, CH06, CH11		

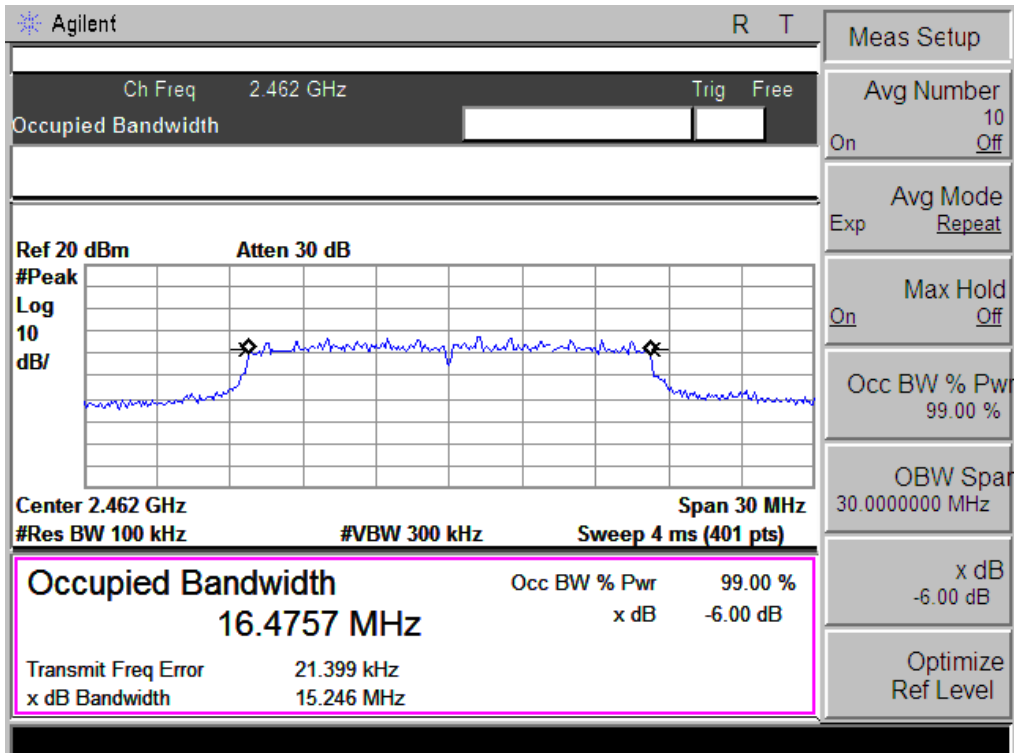
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.256	>=500KHz	PASS
2437 MHz	16.183	>=500KHz	PASS
2462 MHz	15.246	>=500KHz	PASS



### TX CH 06

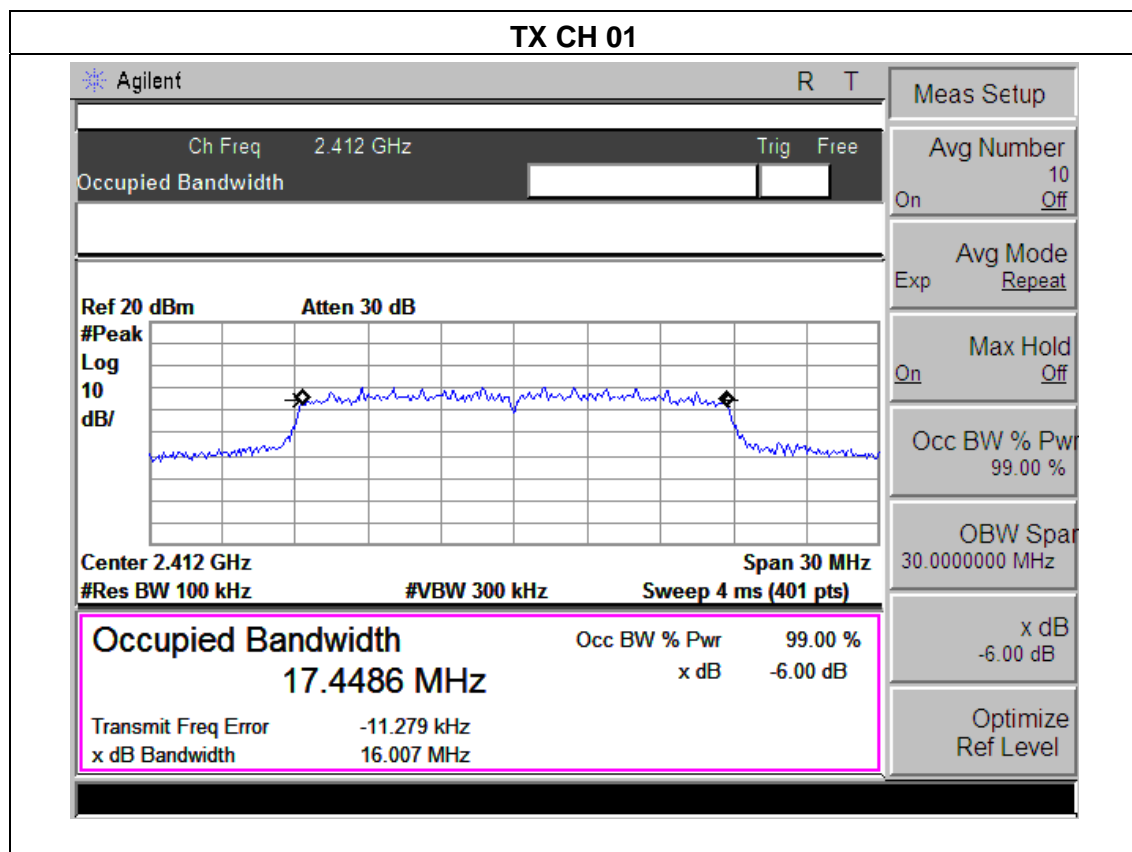


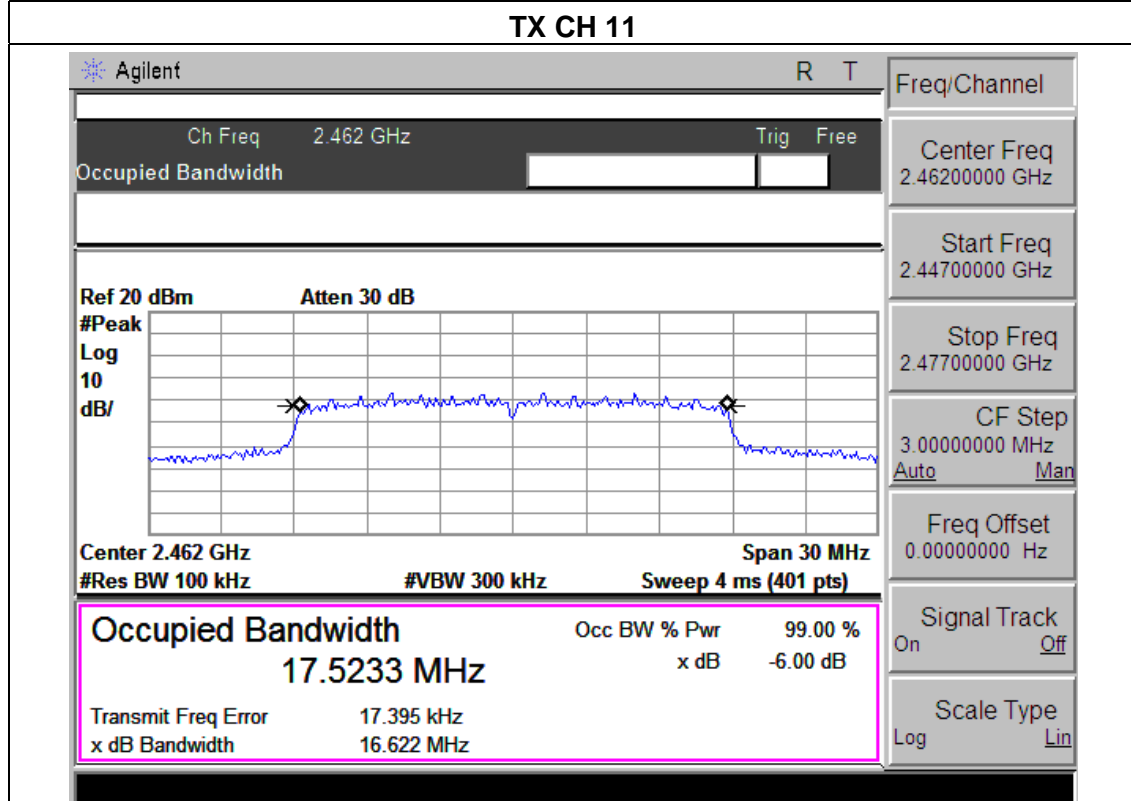
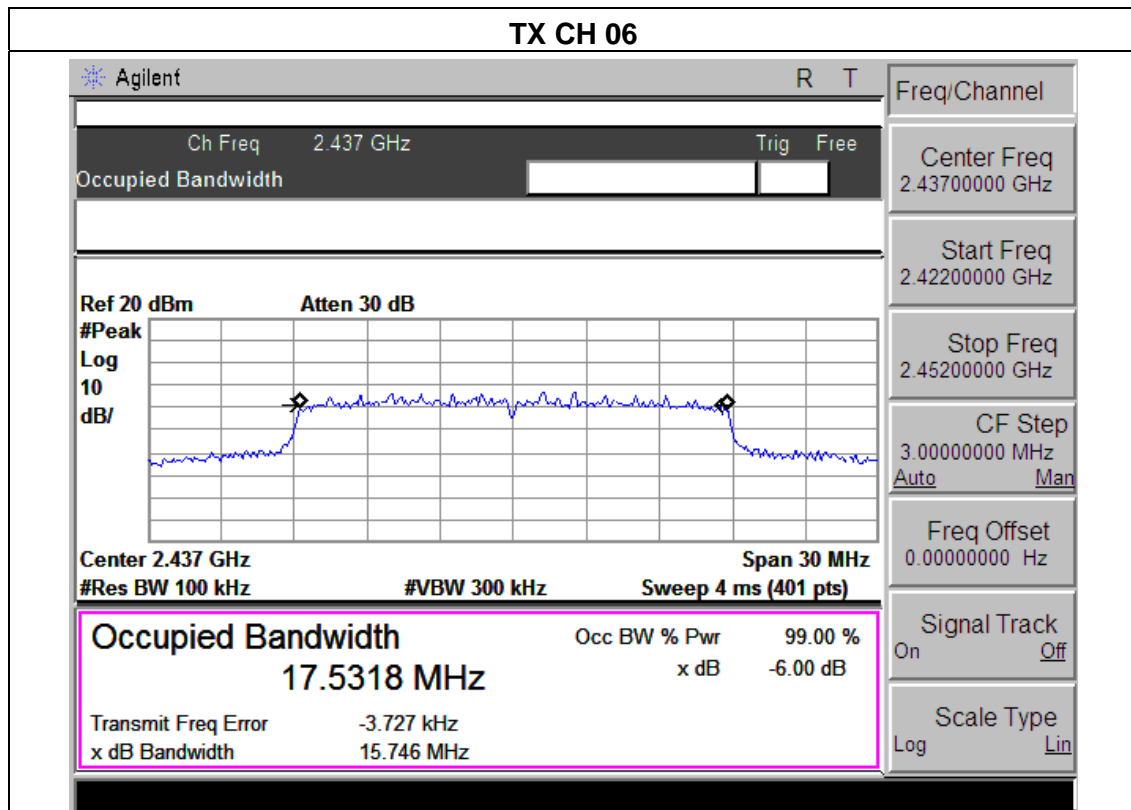
### TX CH 11



EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX 802.11n(20) Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.007	>=500KHz	PASS
2437 MHz	15.746	>=500KHz	PASS
2462 MHz	16.622	>=500KHz	PASS





## 6. PEAK OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.5 TEST RESULTS

EUT :	Ithink Hand View Remote Webcam	Model Name :	I1
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60HZ
Test Mode :	TX b/g/n Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency	Maximum Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	17.23	30
CH06	2437	16.61	30
CH11	2462	16.46	30
TX 802.11g Mode			
CH01	2412	13.28	30
CH06	2437	13.12	30
CH11	2462	13.99	30
TX 802.11n(20) Mode			
CH01	2412	12.05	30
CH06	2437	12.63	30
CH11	2462	12.81	30

## **7. ANTENNA REQUIREMENT**

### **7.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: 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.

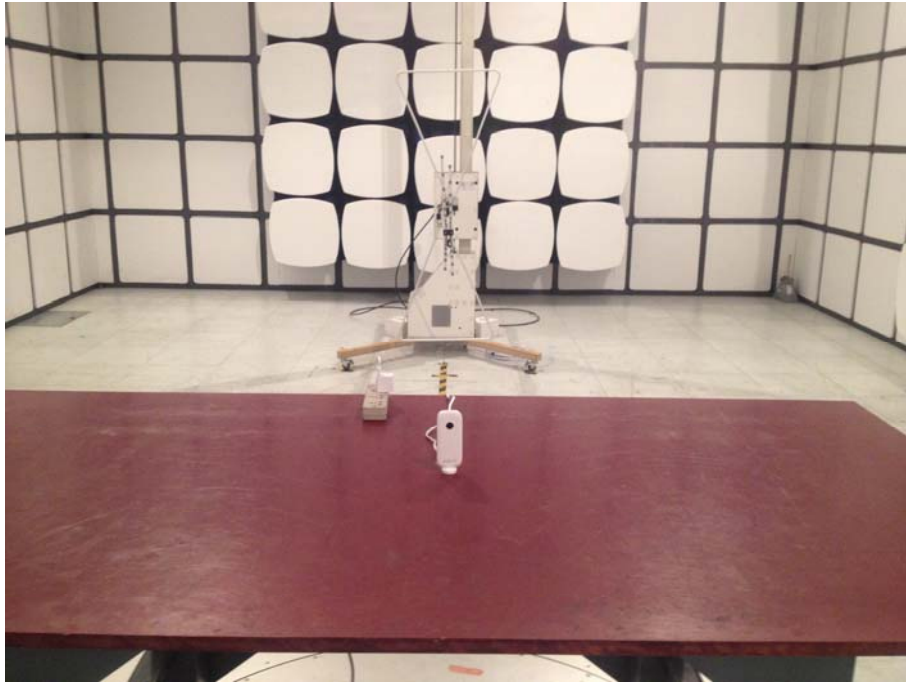
### **7.2 EUT ANTENNA**

The EUT antenna is FPCB antenna. It comply with the standard requirement.



## 8. EUT TEST PHOTO

### Radiated Measurement Photos



**Conducted Measurement Photos**

