

FCC Radio Test Report

FCC ID: CMOQRT-601

Original Grant

Report No. : TB-FCC150669
Applicant : KGUARD INFORMATION CO., LTD.
Equipment Under Test (EUT)
EUT Name : Wireless IP Camera
Model No. : QRT-601
Series No. : QRC-601
Brand Name : 
Receipt Date : 2016-11-21
Test Date : 2016-11-22 to 2016-12-05
Issue Date : 2016-12-06
Standards : FCC Part 15, Subpart C (15.247:2016)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

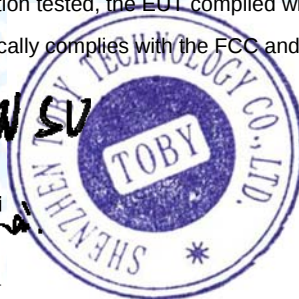
In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC and IC requirements

Test/Witness Engineer :

WANG 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 : KGUARD INFORMATION CO., LTD.
Address : 4F, NO.113, Jian 2nd Rd., Jhonghe Dist., New Taipei City 23585, Taiwan
Manufacturer : Shenzhen Annidigital Technology Co., LTD
Address : 3rd Floor, building D, Shangxue HiTech Industrial Park, Bantian, Longgang District, Shenzhen City, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Wireless IP Camera
Models No.	:	QRT-601, QRC-601
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
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 <i>see note(3)</i> 802.11n(HT40):9 channels <i>see note(3)</i>
	:	RF Output Power: 802.11b: 16.76 dBm 802.11g: 16.68 dBm 802.11n (HT20): 16.08 dBm 802.11n (HT40): 15.83 dBm
	:	Antenna Gain: 3.23 dBi Ceramic Antenna
	:	Modulation Type: 802.11b: CCK, DQPSK, DBPSK 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 AC/DC Adapter(TS-A010-050020AH).
Power Rating	:	Input:100-240V, 50/60Hz, 0.4A. Output: 5V, 2A.
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 v03r05.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

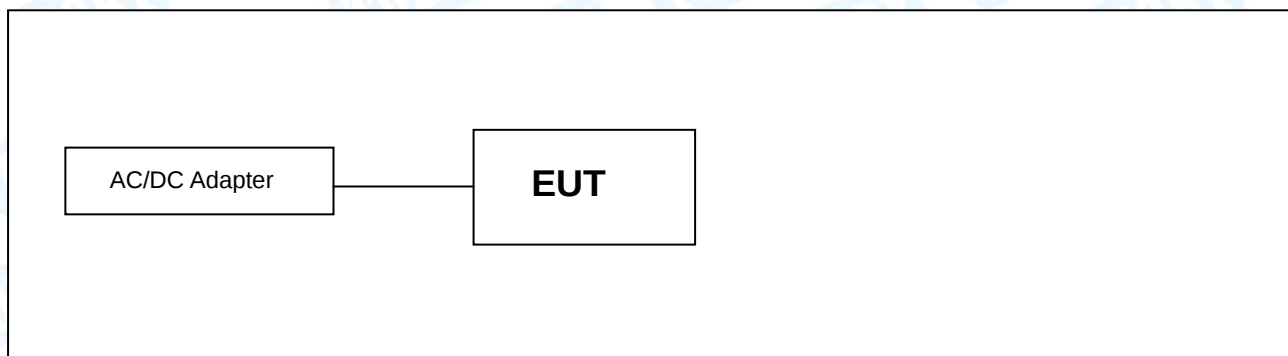
(3) Channel List:

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)					

(4) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

The EUT has been test as an independent unit

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	TX B Mode

For Radiated Test	
Final Test Mode	Description
Mode 2	TX Mode B Mode Channel 01/06/11
Mode 3	TX Mode G Mode Channel 01/06/11
Mode 4	TX Mode N(HT20) Mode Channel 01/06/11
Mode 5	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 Fixed 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.

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)& 15.209	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	Jul. 22, 2016	Jul. 21, 2017
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN	Rohde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 20, 2016	Mar. 19, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 20, 2016	Mar. 19, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 19, 2016	Mar. 18, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 19, 2016	Mar. 18, 2017
Loop Antenna	Laplace instrument	RF300	0701	Mar. 19, 2016	Mar. 18, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 20, 2016	Mar. 19, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	Rohde & Schwarz	ESCI	100321	Jul. 22, 2016	Jul. 21, 2017
Power Meter	Anritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor	Anritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017

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

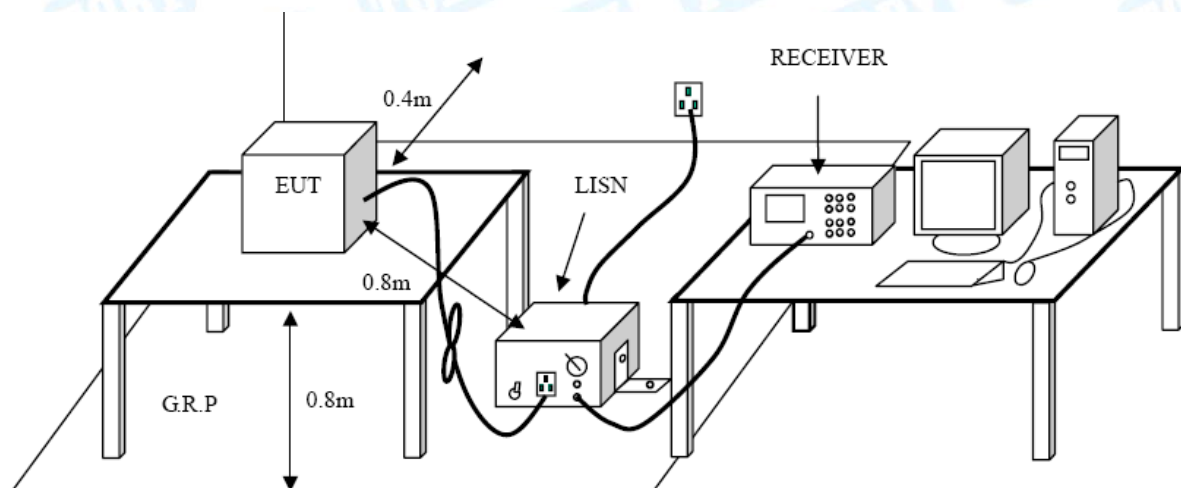
Notes:

(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.

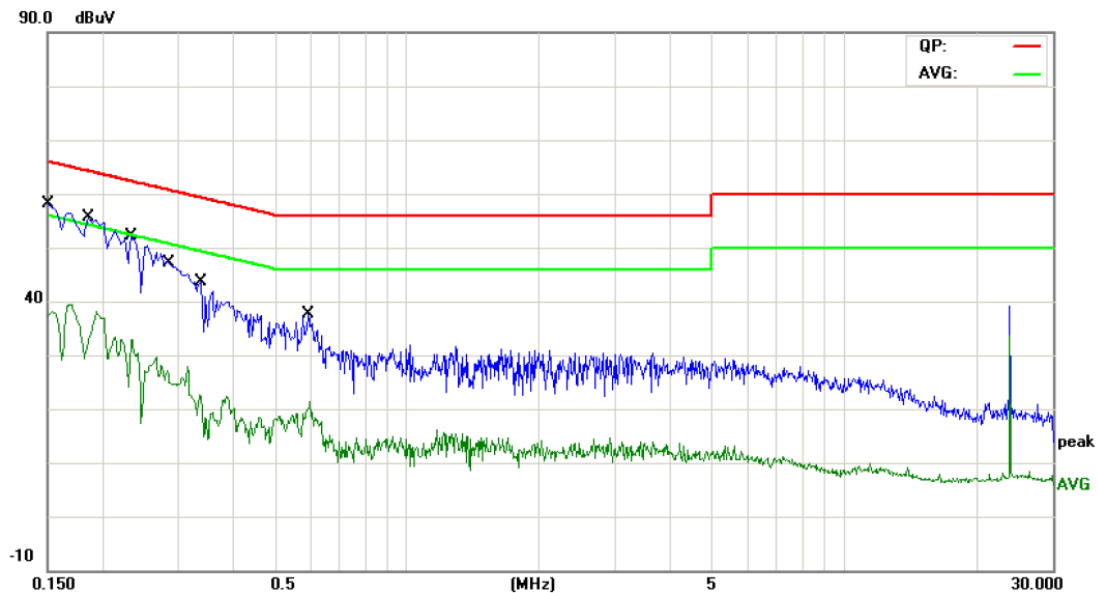
4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please see the next page.

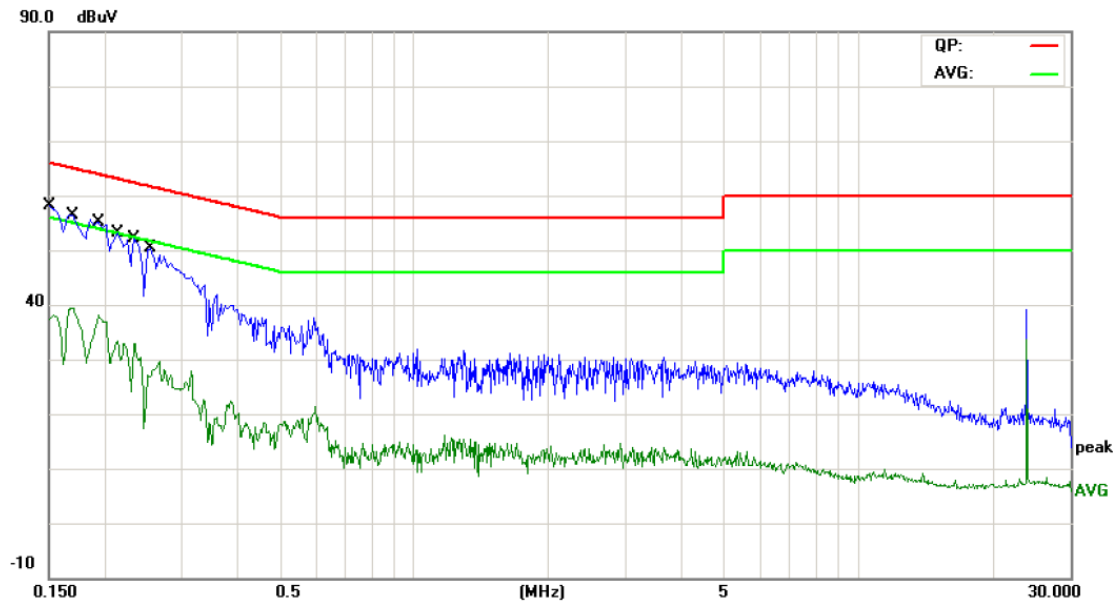
EUT:	Wireless IP Camera	Model Name :	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	44.65	9.92	54.57	65.99	-11.42	QP
2		0.1500	23.51	9.92	33.43	55.99	-22.56	AVG
3		0.1860	40.89	9.99	50.88	64.21	-13.33	QP
4		0.1860	19.57	9.99	29.56	54.21	-24.65	AVG
5		0.2340	37.12	10.02	47.14	62.30	-15.16	QP
6		0.2340	16.31	10.02	26.33	52.30	-25.97	AVG
7		0.2878	32.74	10.02	42.76	60.59	-17.83	QP
8		0.2878	12.66	10.02	22.68	50.59	-27.91	AVG
9		0.3379	29.08	10.02	39.10	59.25	-20.15	QP
10		0.3379	9.54	10.02	19.56	49.25	-29.69	AVG
11		0.5940	21.37	10.07	31.44	56.00	-24.56	QP
12		0.5940	8.97	10.07	19.04	46.00	-26.96	AVG

Emission Level= Read Level+ Correct Factor

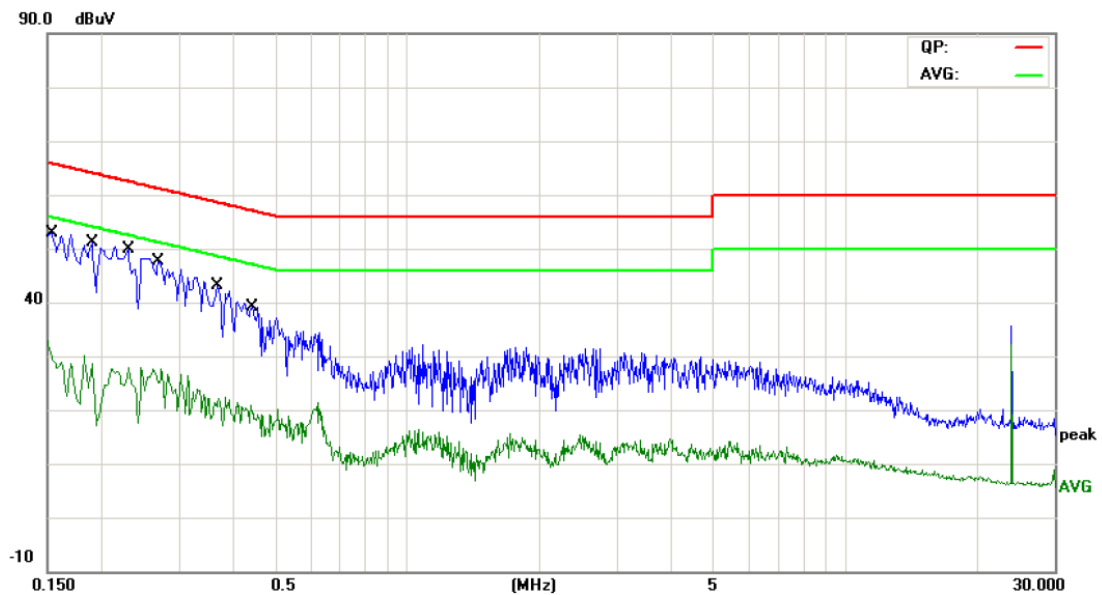
EUT:	Wireless IP Camera	Model Name :	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	45.11	10.12	55.23	65.99	-10.76	QP
2		0.1500	24.23	10.12	34.35	55.99	-21.64	AVG
3		0.1700	42.64	10.12	52.76	64.96	-12.20	QP
4		0.1700	22.31	10.12	32.43	54.96	-22.53	AVG
5		0.1940	40.31	10.12	50.43	63.86	-13.43	QP
6		0.1940	20.49	10.12	30.61	53.86	-23.25	AVG
7		0.2140	38.88	10.12	49.00	63.04	-14.04	QP
8		0.2140	18.77	10.12	28.89	53.04	-24.15	AVG
9		0.2340	37.47	10.11	47.58	62.30	-14.72	QP
10		0.2340	17.41	10.11	27.52	52.30	-24.78	AVG
11		0.2540	37.02	10.10	47.12	61.62	-14.50	QP
12		0.2540	16.70	10.10	26.80	51.62	-24.82	AVG

Emission Level= Read Level+ Correct Factor

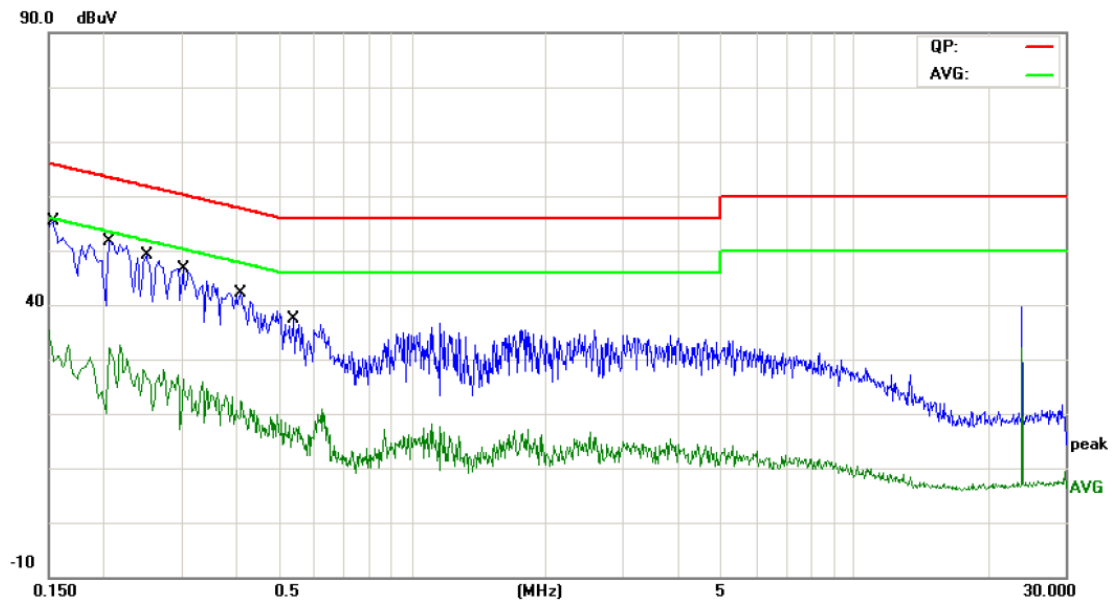
EUT:	Wireless IP Camera	Model Name :	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1539	40.05	9.93	49.98	65.78	-15.80	QP
2		0.1539	15.73	9.93	25.66	55.78	-30.12	AVG
3		0.1900	37.01	10.00	47.01	64.03	-17.02	QP
4		0.1900	13.42	10.00	23.42	54.03	-30.61	AVG
5		0.2300	35.47	10.02	45.49	62.45	-16.96	QP
6		0.2300	14.25	10.02	24.27	52.45	-28.18	AVG
7		0.2700	33.57	10.02	43.59	61.12	-17.53	QP
8		0.2700	11.92	10.02	21.94	51.12	-29.18	AVG
9		0.3660	29.16	10.02	39.18	58.59	-19.41	QP
10		0.3660	10.33	10.02	20.35	48.59	-28.24	AVG
11		0.4420	24.92	10.02	34.94	57.02	-22.08	QP
12		0.4420	7.50	10.02	17.52	47.02	-29.50	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model Name :	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Neutral		
Test Mode:	TX B Mode		
Remark:	Only worse case is reported		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1539	40.37	9.93	50.30	65.78	-15.48	QP
2		0.1539	17.89	9.93	27.82	55.78	-27.96	AVG
3		0.2060	37.06	10.02	47.08	63.36	-16.28	QP
4		0.2060	17.23	10.02	27.25	53.36	-26.11	AVG
5		0.2500	34.64	10.02	44.66	61.75	-17.09	QP
6		0.2500	15.70	10.02	25.72	51.75	-26.03	AVG
7		0.3020	33.43	10.02	43.45	60.19	-16.74	QP
8		0.3020	13.27	10.02	23.29	50.19	-26.90	AVG
9		0.4100	27.51	10.02	37.53	57.65	-20.12	QP
10		0.4100	8.85	10.02	18.87	47.65	-28.78	AVG
11		0.5380	22.85	10.04	32.89	56.00	-23.11	QP
12		0.5380	5.94	10.04	15.98	46.00	-30.02	AVG

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 (9 kHz~1000 MHz)

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

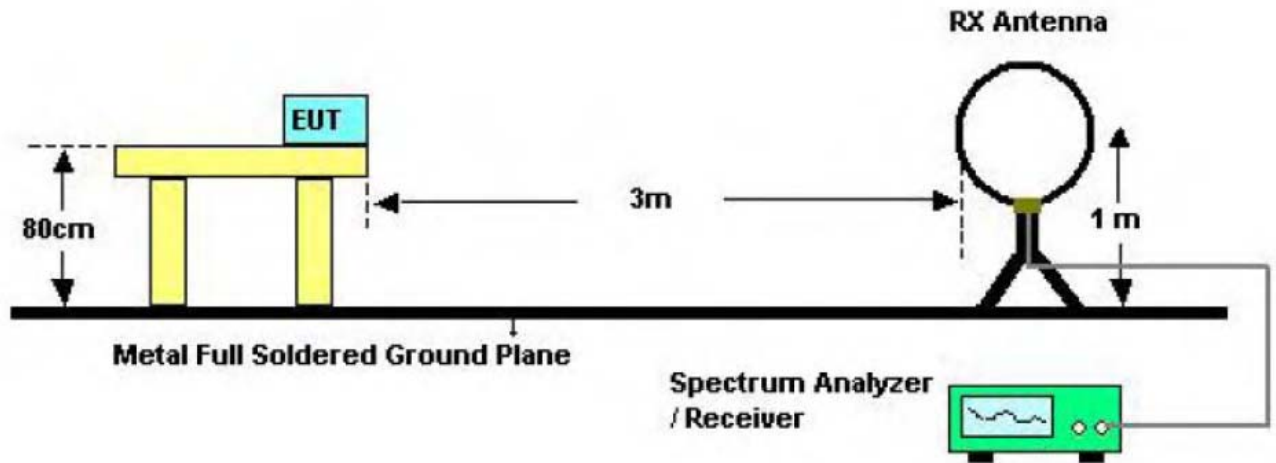
Radiated Emission Limit (Above 1000MHz)

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

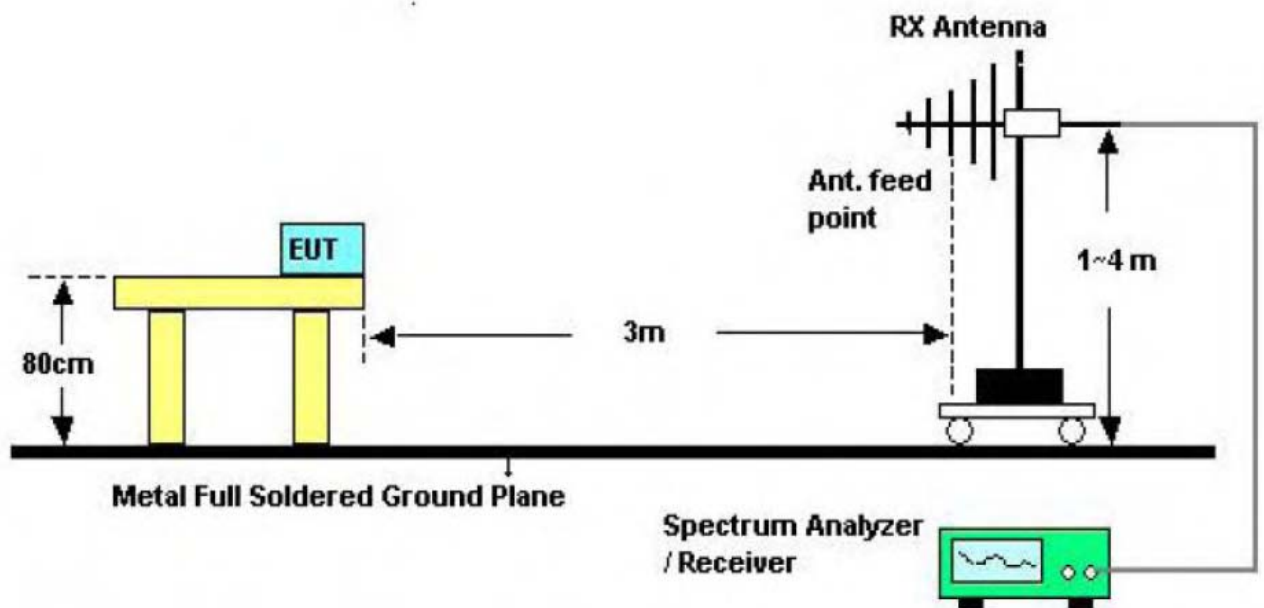
Note:

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

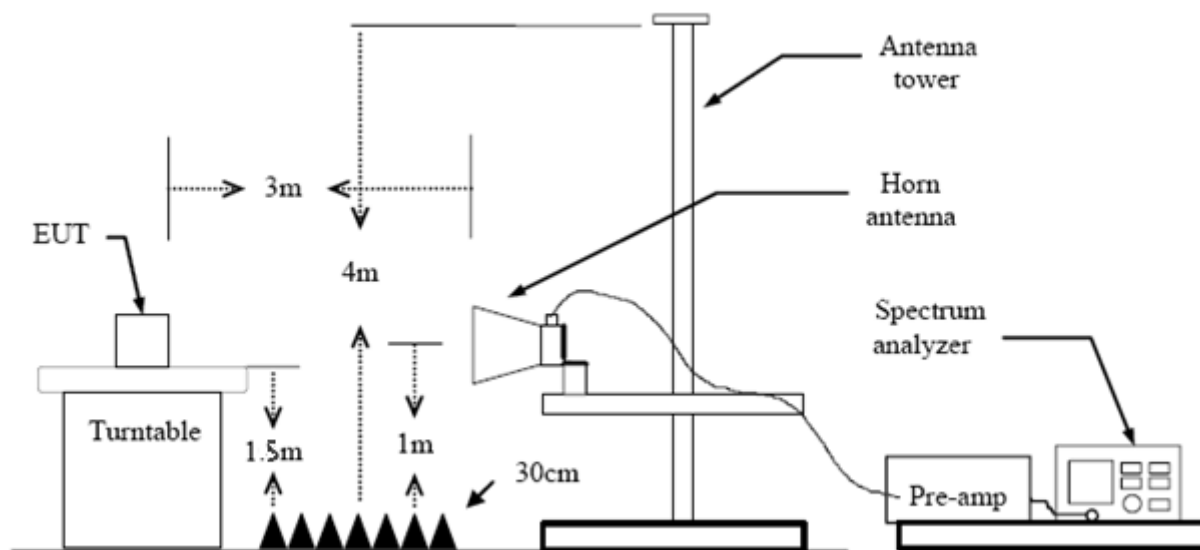
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) 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.
- (2) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (3) 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.
- (4) 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.
- (5) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (6) 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.
- (7) 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.

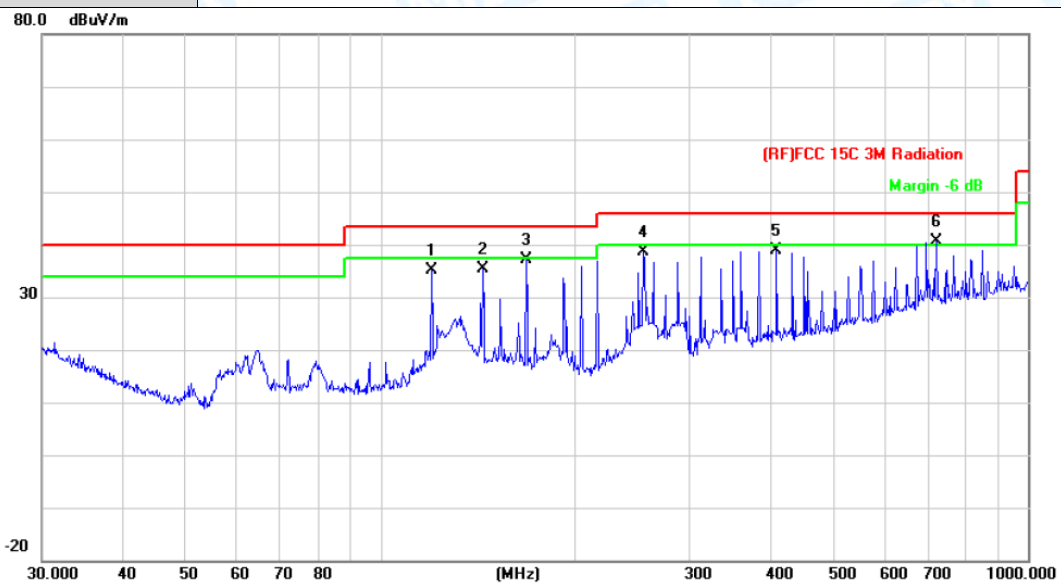
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

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

30MHz~1GHz

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

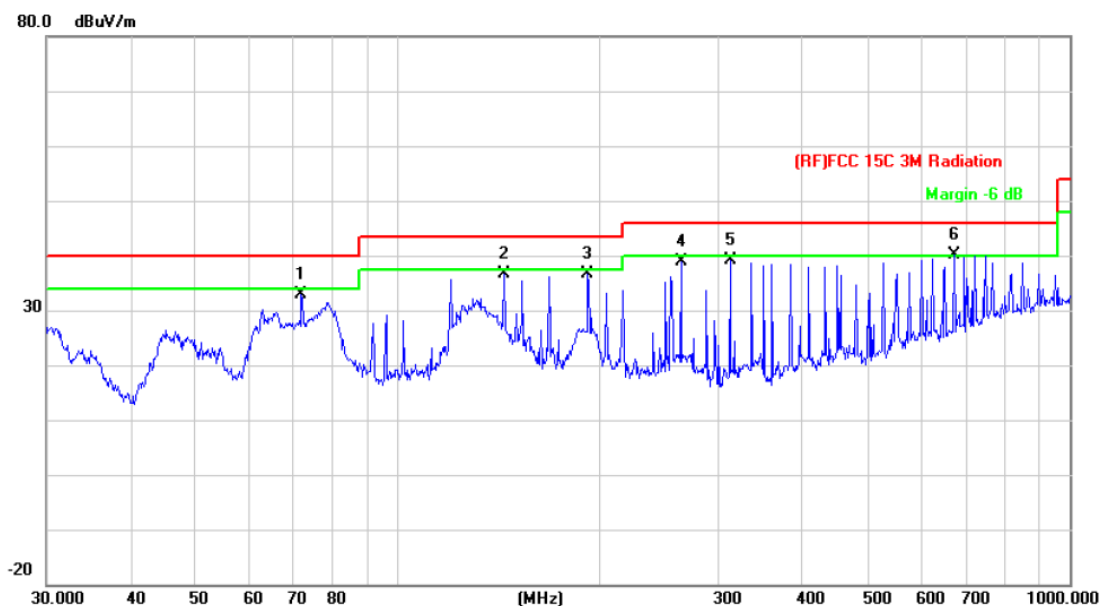


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		119.8555	57.47	-22.44	35.03	43.50	-8.47	peak
2		143.8294	56.81	-21.51	35.30	43.50	-8.20	peak
3		167.8242	57.86	-20.78	37.08	43.50	-6.42	peak
4		254.7283	56.34	-17.60	38.74	46.00	-7.26	peak
5		408.9460	51.31	-12.37	38.94	46.00	-7.06	peak
6	*	721.7259	46.61	-6.00	40.61	46.00	-5.39	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	Only worse case is reported		

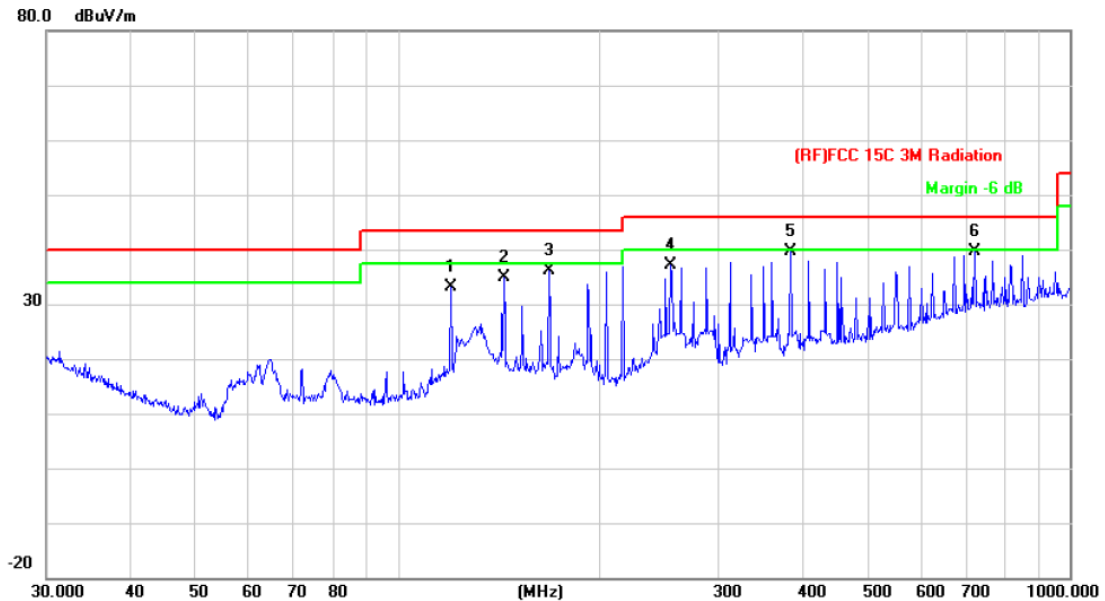


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		71.8319	56.55	-23.63	32.92	40.00	-7.08	peak
2		143.8291	58.03	-21.51	36.52	43.50	-6.98	peak
3		191.7450	57.08	-20.45	36.63	43.50	-6.87	peak
4		263.8190	56.27	-17.40	38.87	46.00	-7.13	peak
5		312.1792	55.29	-16.19	39.10	46.00	-6.90	peak
6	*	672.8444	46.98	-6.75	40.23	46.00	-5.77	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

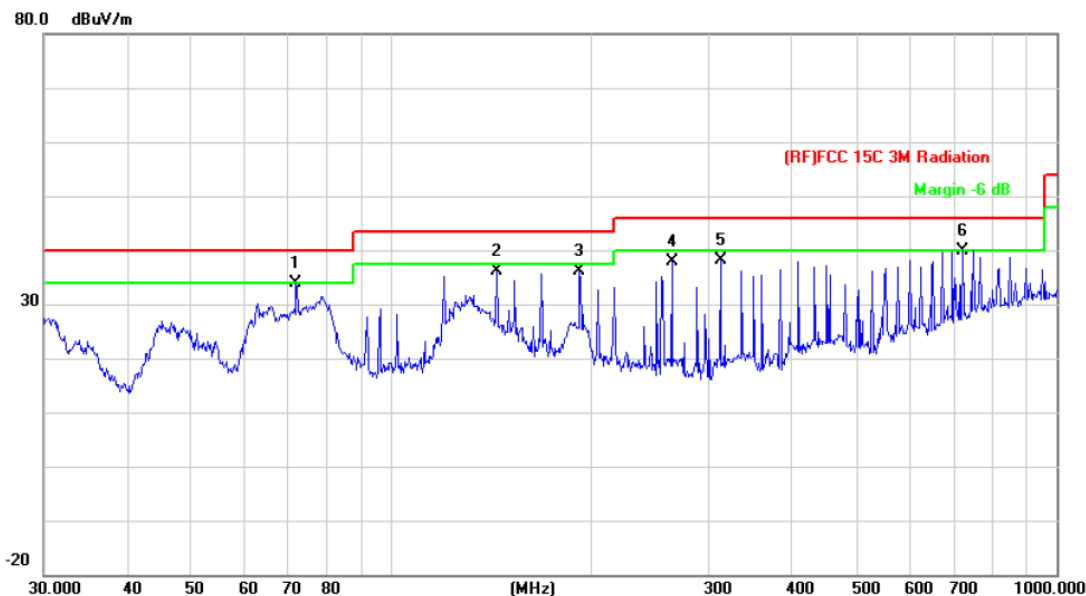


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		119.8555	55.47	-22.44	33.03	43.50	-10.47	peak
2		143.8292	56.31	-21.51	34.80	43.50	-8.70	peak
3		167.8240	56.86	-20.78	36.08	43.50	-7.42	peak
4		254.7281	54.84	-17.60	37.24	46.00	-8.76	peak
5		383.9318	52.95	-13.41	39.54	46.00	-6.46	peak
6	*	721.7259	45.61	-6.00	39.61	46.00	-6.39	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	Only worse case is reported		

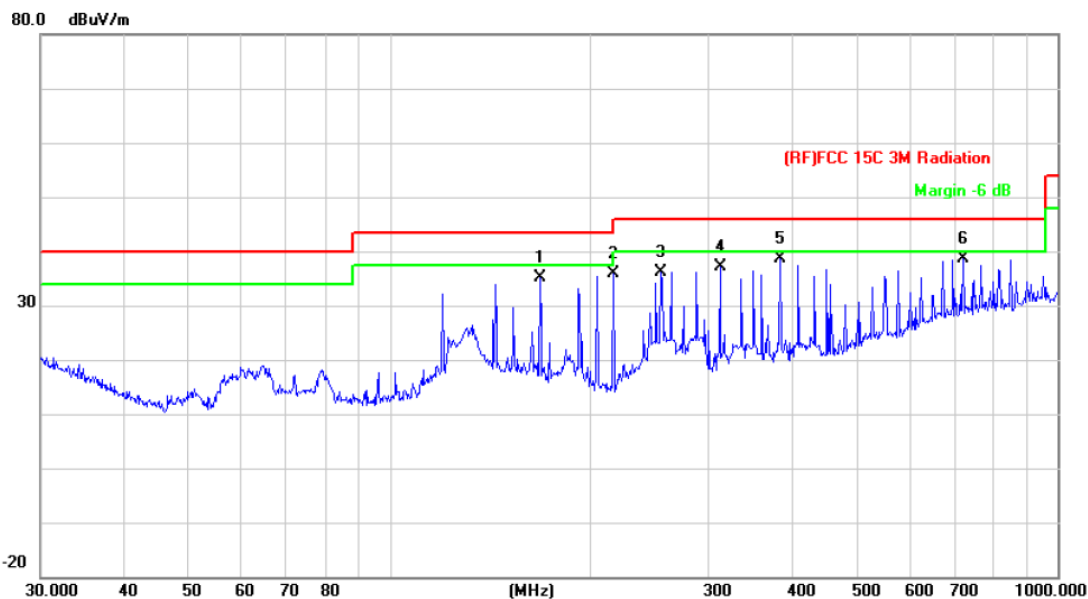


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		71.8319	57.55	-23.63	33.92	40.00	-6.08	peak
2		143.8291	57.53	-21.51	36.02	43.50	-7.48	peak
3		191.7450	56.58	-20.45	36.13	43.50	-7.37	peak
4		263.8190	55.27	-17.40	37.87	46.00	-8.13	peak
5		312.1792	54.29	-16.19	38.10	46.00	-7.90	peak
6	*	721.7259	46.06	-6.07	39.99	46.00	-6.01	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		

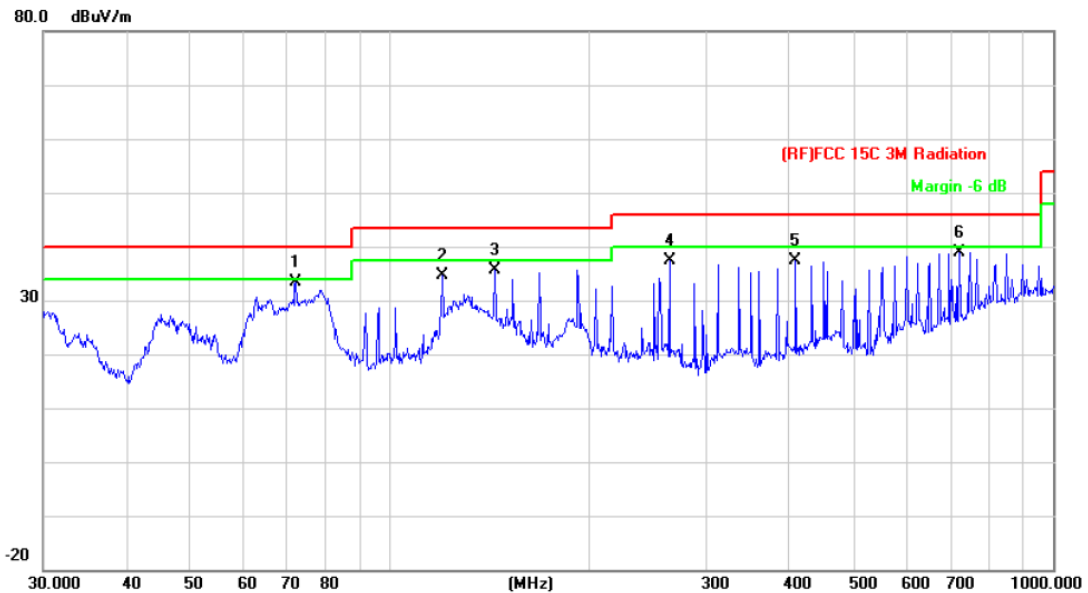


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		167.8240	55.86	-20.78	35.08	43.50	-8.42	peak
2		216.0240	55.18	-19.29	35.89	46.00	-10.11	peak
3		254.7281	53.84	-17.60	36.24	46.00	-9.76	peak
4		312.1792	53.42	-16.19	37.23	46.00	-8.77	peak
5		383.9318	51.95	-13.41	38.54	46.00	-7.46	peak
6	*	721.7259	44.61	-6.00	38.61	46.00	-7.39	peak

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

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	Only worse case is reported		



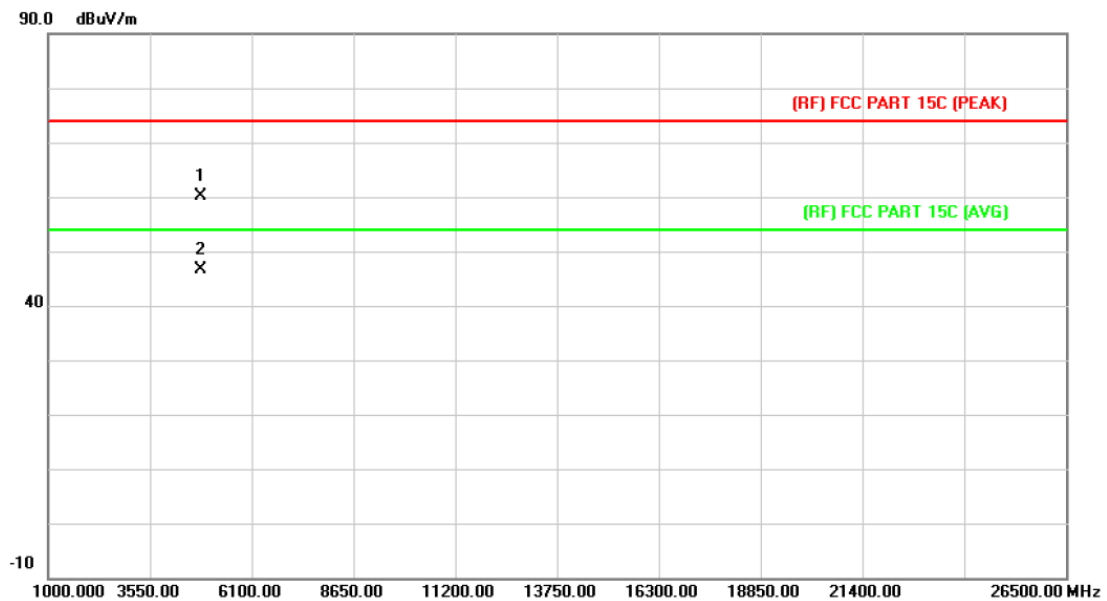
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	72.0841	56.96	-23.61	33.35	40.00	-6.65	peak
2		119.8555	57.15	-22.44	34.71	43.50	-8.79	peak
3		143.8291	57.03	-21.51	35.52	43.50	-7.98	peak
4		263.8190	54.77	-17.40	37.37	46.00	-8.63	peak
5		408.9460	49.64	-12.37	37.27	46.00	-8.73	peak
6		721.7259	45.06	-6.07	38.99	46.00	-7.01	peak

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

Emission Level= Read Level+ Correct Factor

Above 1GHz

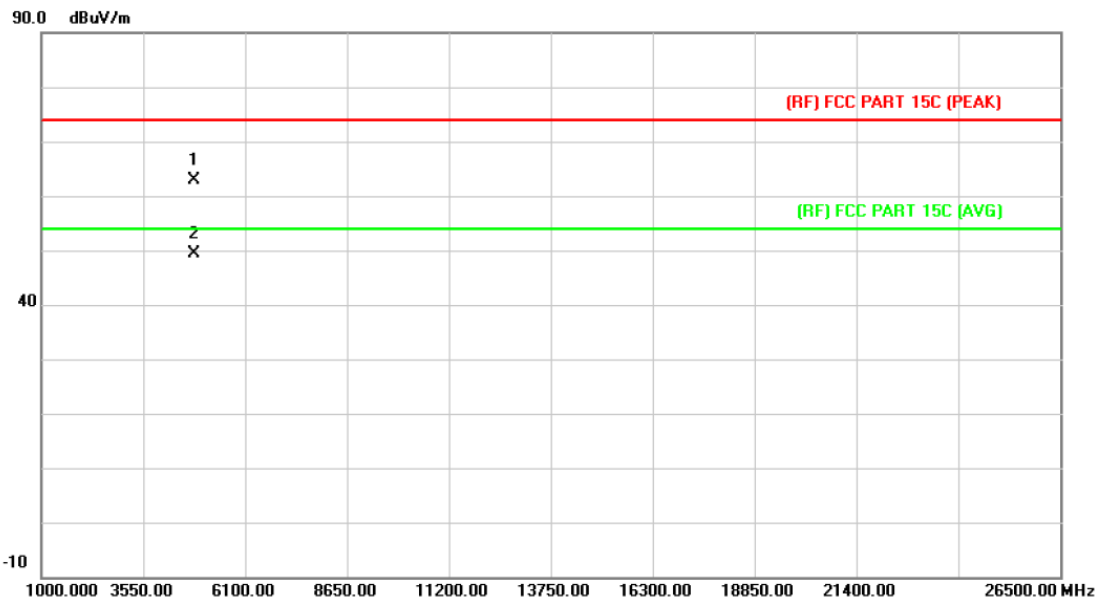
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.720	46.45	13.56	60.01	74.00	-13.99	peak
2	*	4826.360	33.16	13.57	46.73	54.00	-7.27	AVG

Emission Level= Read Level+ Correct Factor

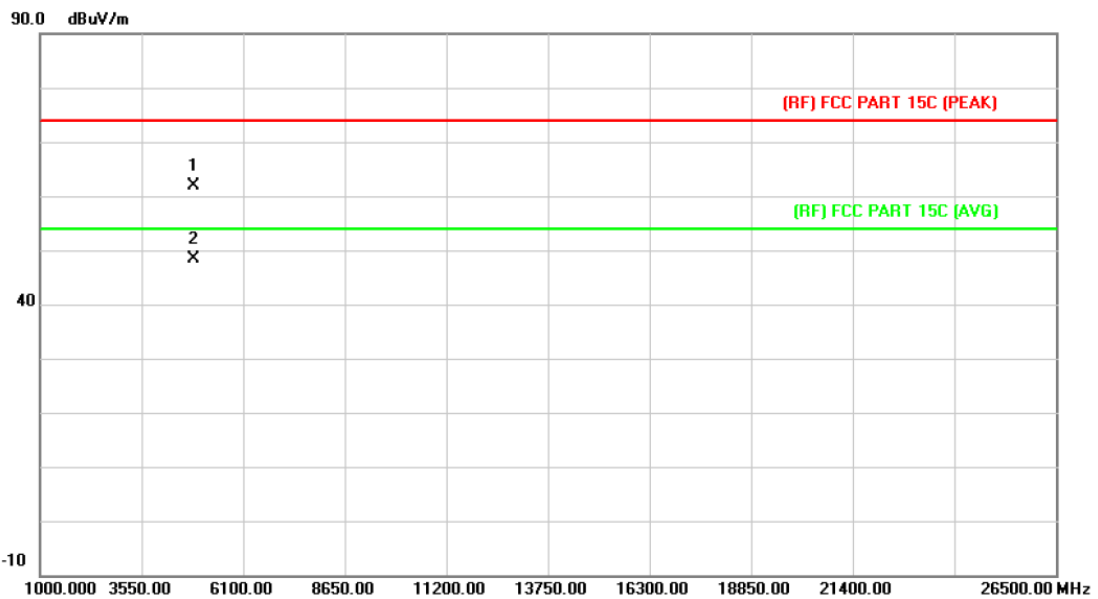
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4824.720	49.20	13.56	62.76	74.00	-11.24	peak
2	*	4826.500	35.83	13.57	49.40	54.00	-4.60	AVG

Emission Level= Read Level+ Correct Factor

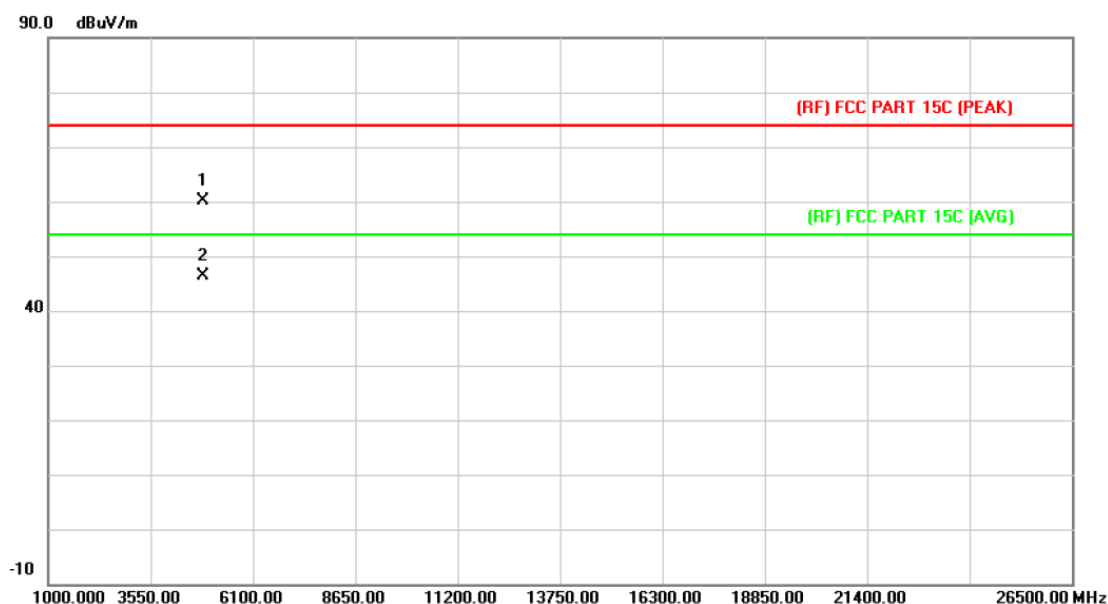
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.363	47.99	13.86	61.85	74.00	-12.15	peak
2	*	4874.398	34.53	13.86	48.39	54.00	-5.61	AVG

Emission Level= Read Level+ Correct Factor

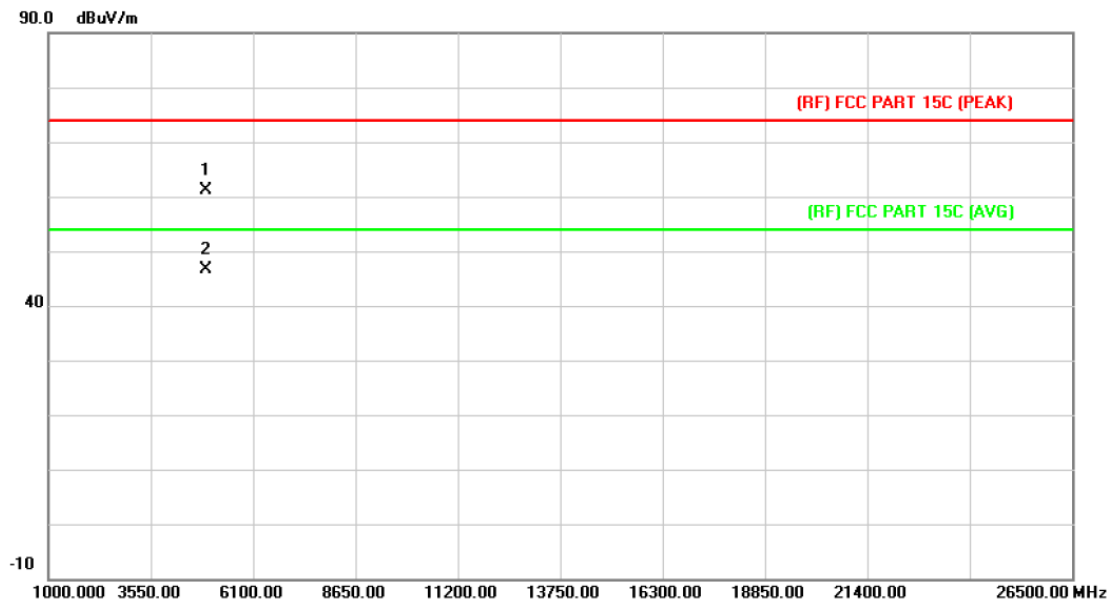
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.416	46.22	13.86	60.08	74.00	-13.92	peak
2	*	4874.439	32.41	13.86	46.27	54.00	-7.73	AVG

Emission Level= Read Level+ Correct Factor

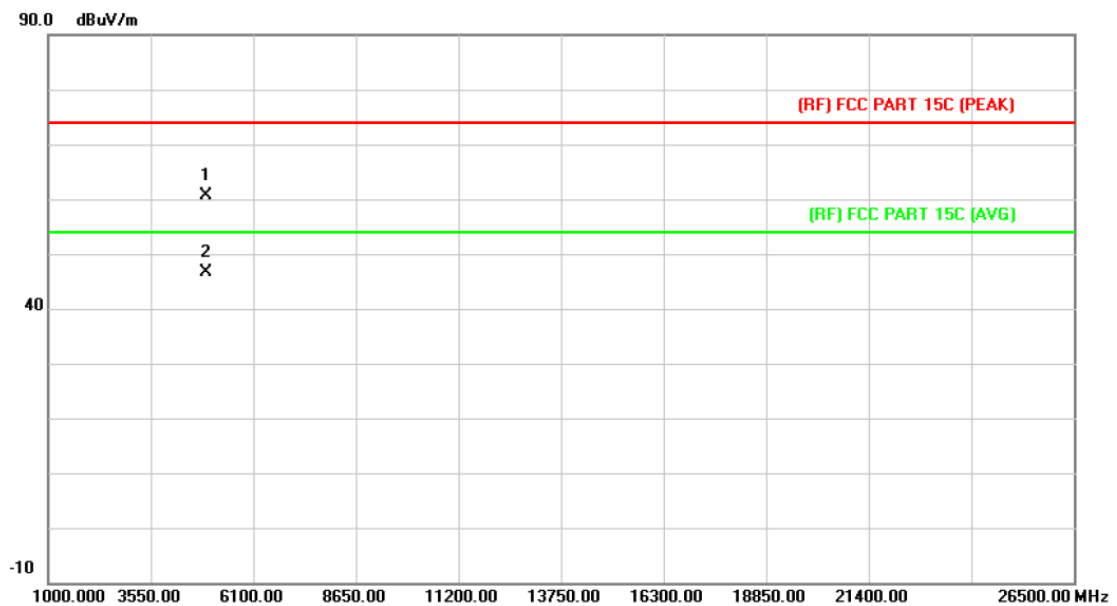
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4924.171	47.00	14.15	61.15	74.00	-12.85	peak
2	*	4924.439	32.38	14.15	46.53	54.00	-7.47	AVG

Emission Level= Read Level+ Correct Factor

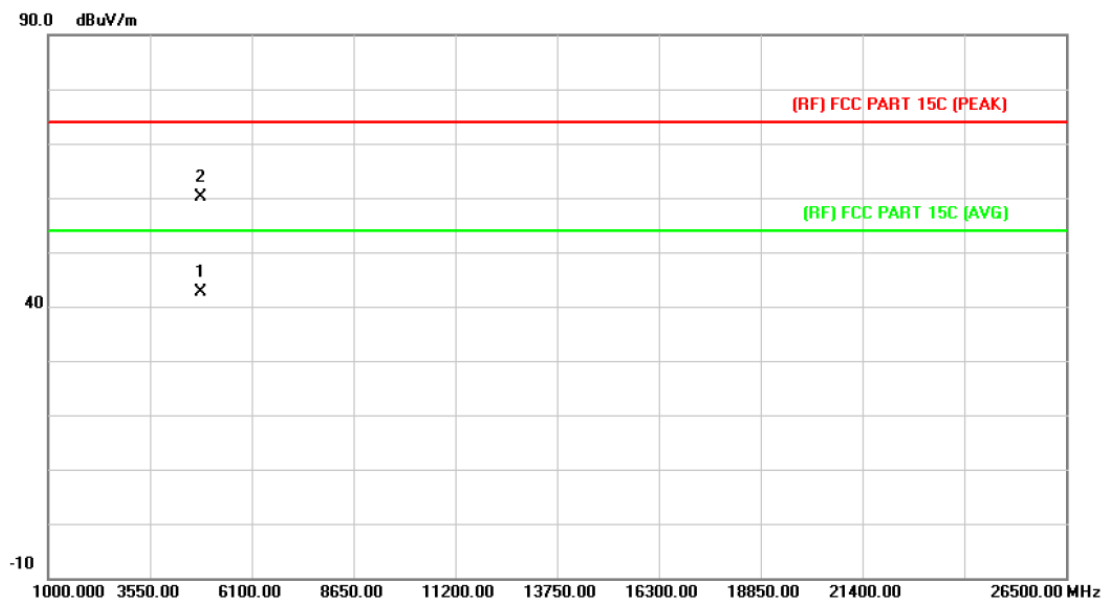
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.964	46.51	14.15	60.66	74.00	-13.34	peak
2	*	4924.337	32.57	14.15	46.72	54.00	-7.28	AVG

Emission Level= Read Level+ Correct Factor

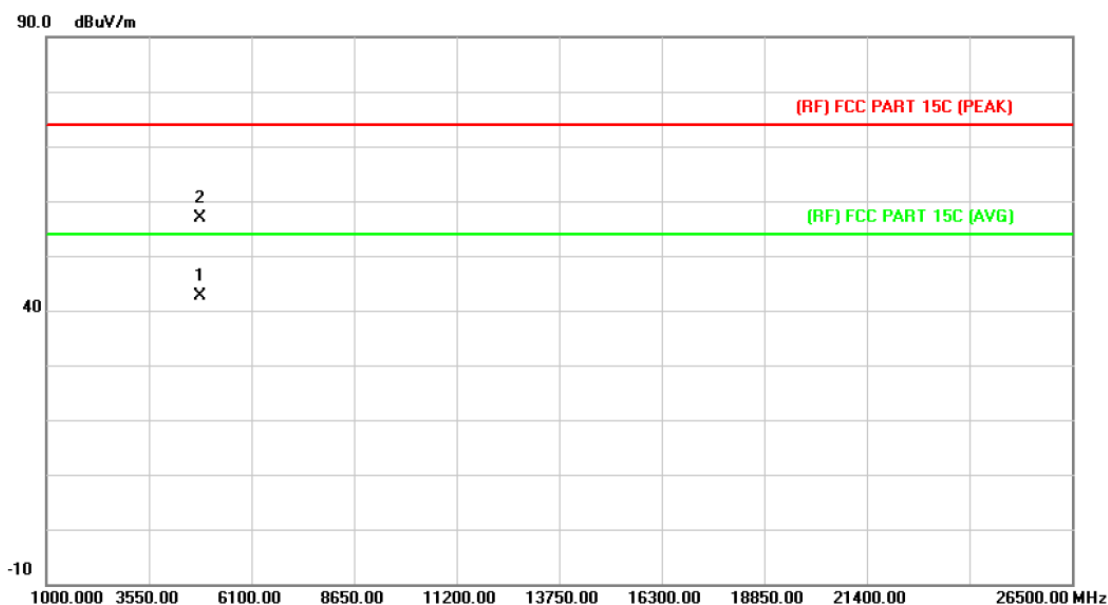
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.828	29.10	13.56	42.66	54.00	-11.34	AVG
2		4824.004	46.50	13.56	60.06	74.00	-13.94	peak

Emission Level= Read Level+ Correct Factor

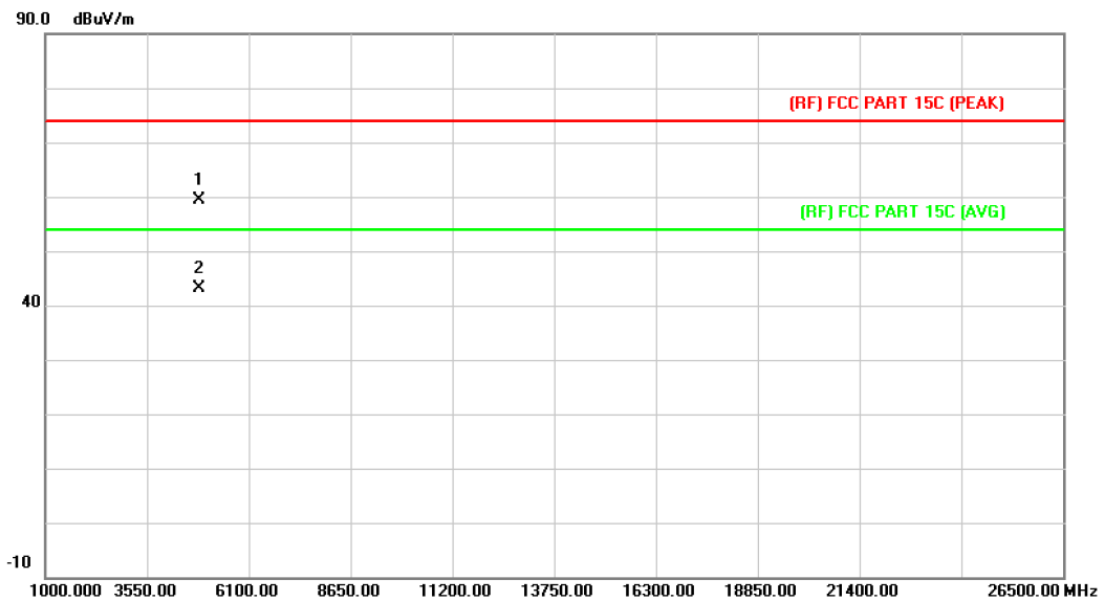
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.558	29.11	13.56	42.67	54.00	-11.33	AVG
2		4824.268	43.42	13.56	56.98	74.00	-17.02	peak

Emission Level= Read Level+ Correct Factor

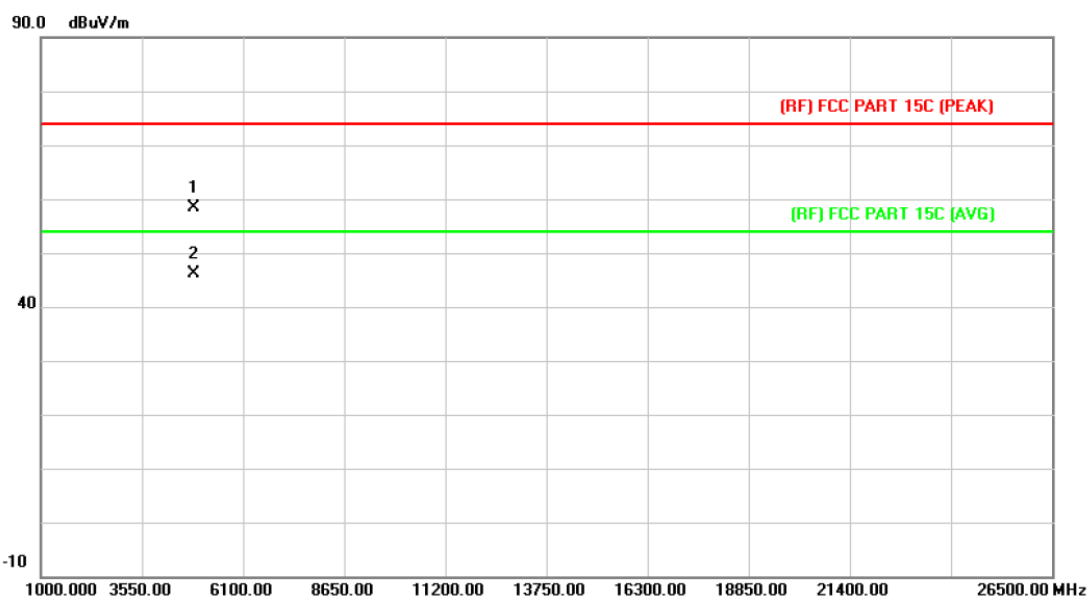
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.863	45.57	13.86	59.43	74.00	-14.57	peak
2	*	4874.355	29.34	13.86	43.20	54.00	-10.80	AVG

Emission Level= Read Level+ Correct Factor

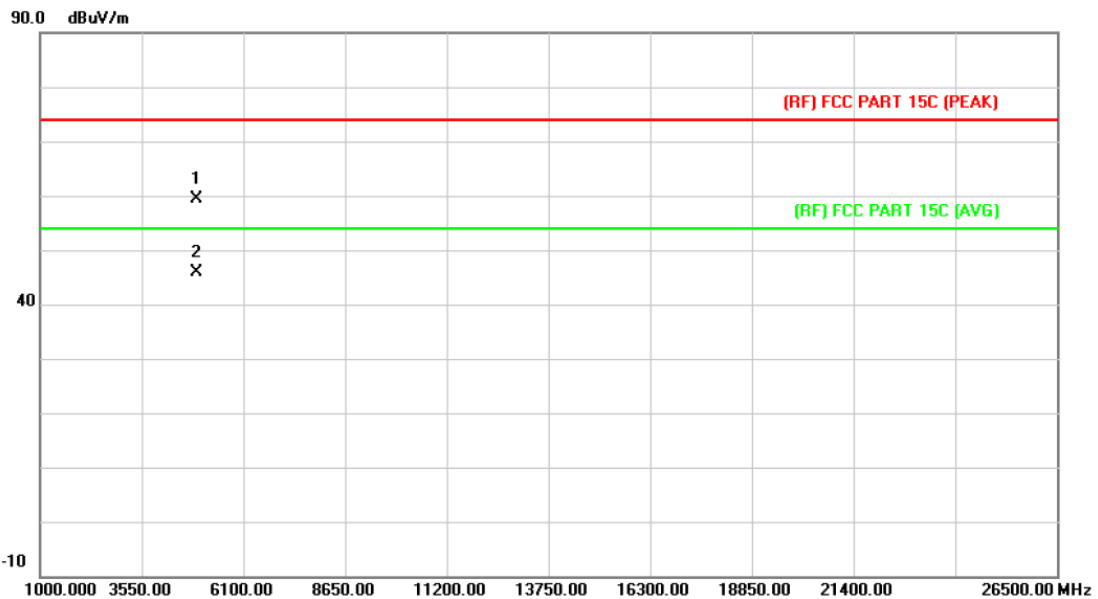
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.053	44.47	13.86	58.33	74.00	-15.67	peak
2	*	4874.447	32.24	13.86	46.10	54.00	-7.90	AVG

Emission Level= Read Level+ Correct Factor

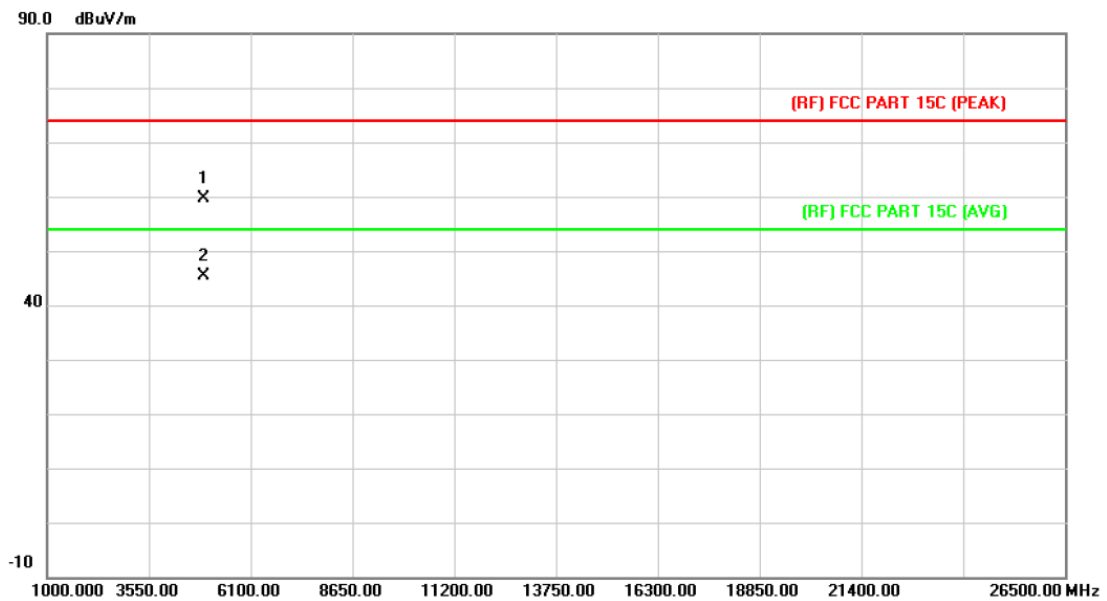
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.385	45.16	14.15	59.31	74.00	-14.69	peak
2	*	4924.500	31.64	14.15	45.79	54.00	-8.21	AVG

Emission Level= Read Level+ Correct Factor

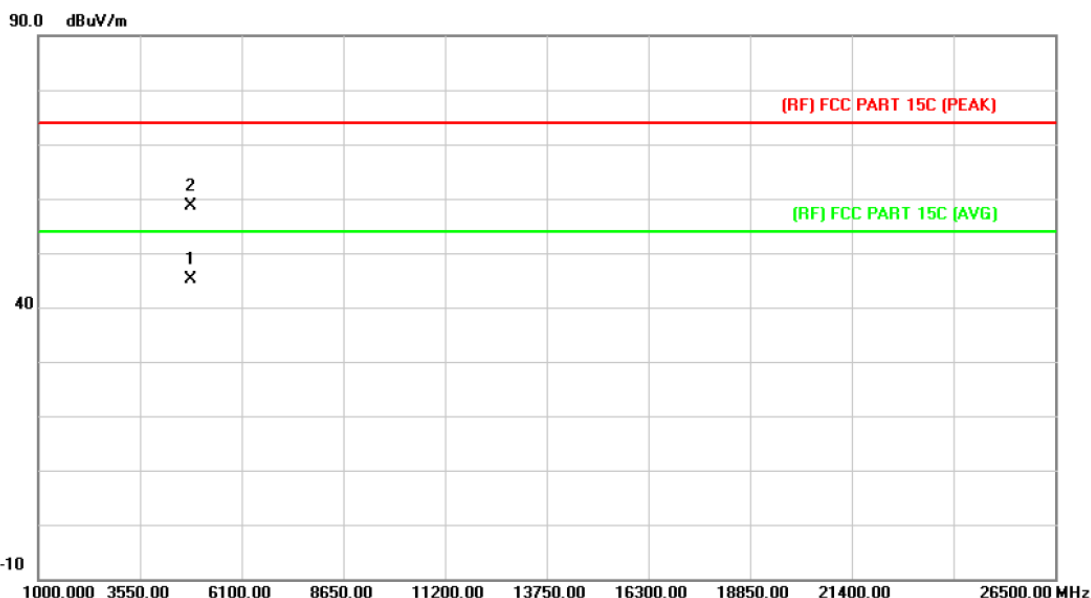
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4924.274	45.58	14.15	59.73	74.00	-14.27	peak
2	*	4924.480	31.14	14.15	45.29	54.00	-8.71	AVG

Emission Level= Read Level+ Correct Factor

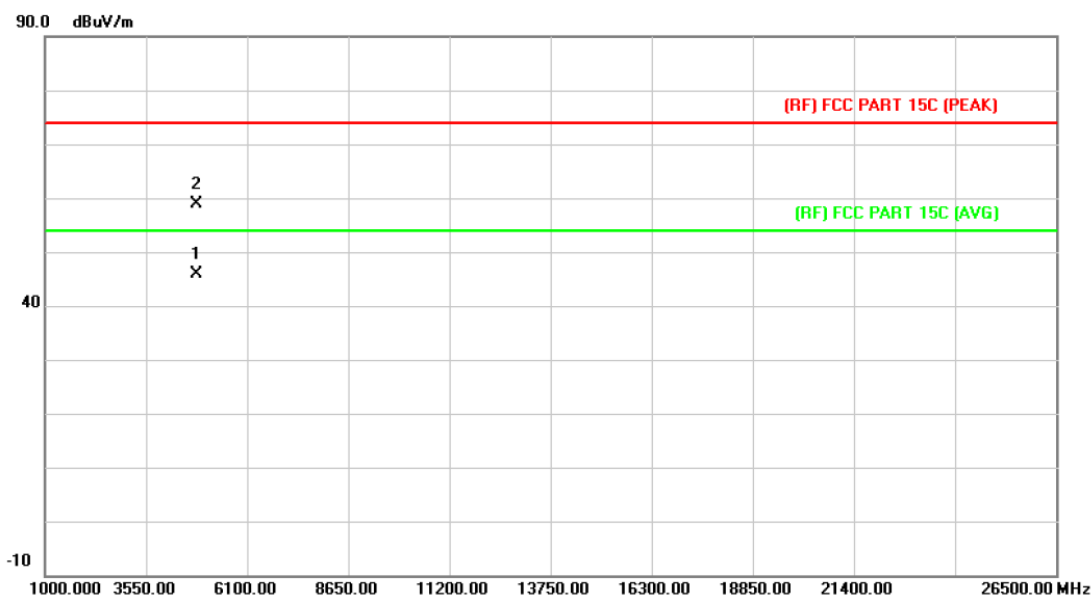
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.605	31.60	13.56	45.16	54.00	-8.84	AVG
2		4824.298	45.18	13.56	58.74	74.00	-15.26	peak

Emission Level= Read Level+ Correct Factor

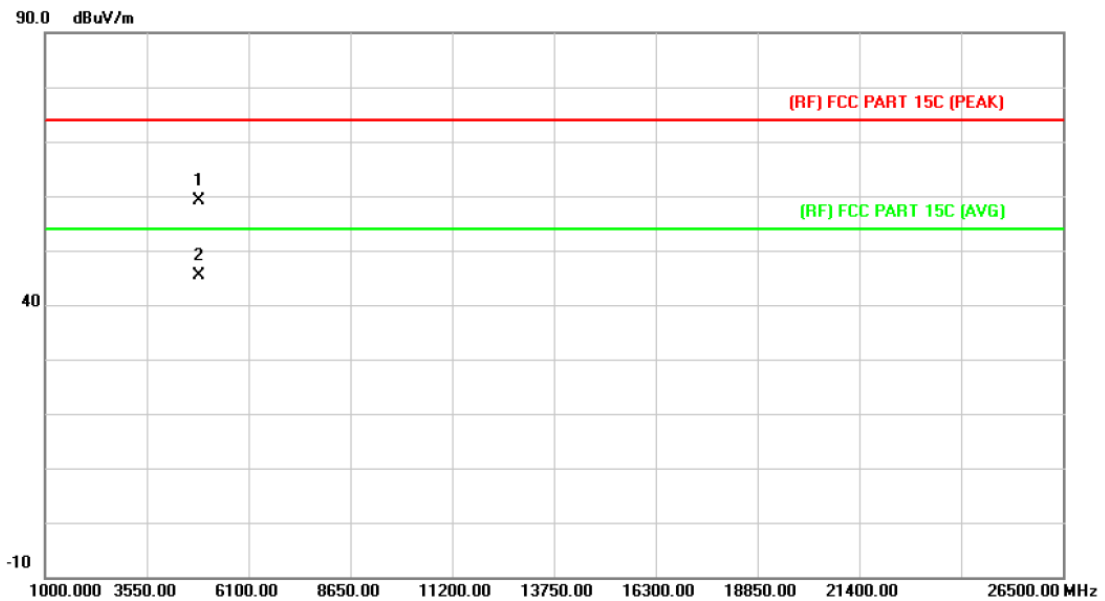
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4823.776	32.23	13.56	45.79	54.00	-8.21	AVG
2		4824.035	45.27	13.56	58.83	74.00	-15.17	peak

Emission Level= Read Level+ Correct Factor

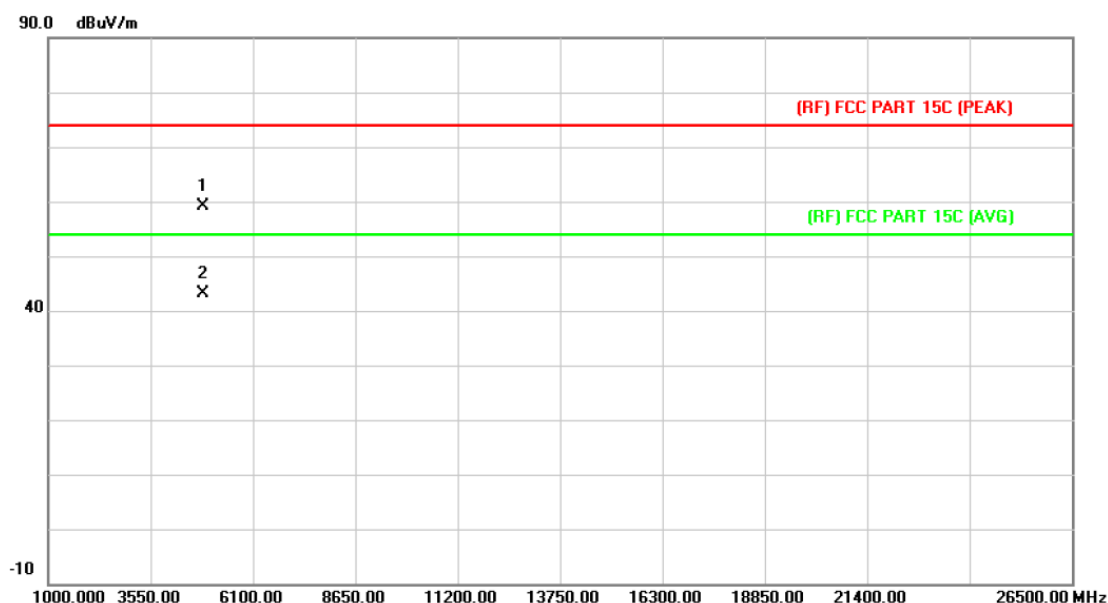
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		4873.560	45.27	13.86	59.13	74.00	-14.87 peak
2	*	4874.395	31.53	13.86	45.39	54.00	-8.61 AVG

Emission Level= Read Level+ Correct Factor

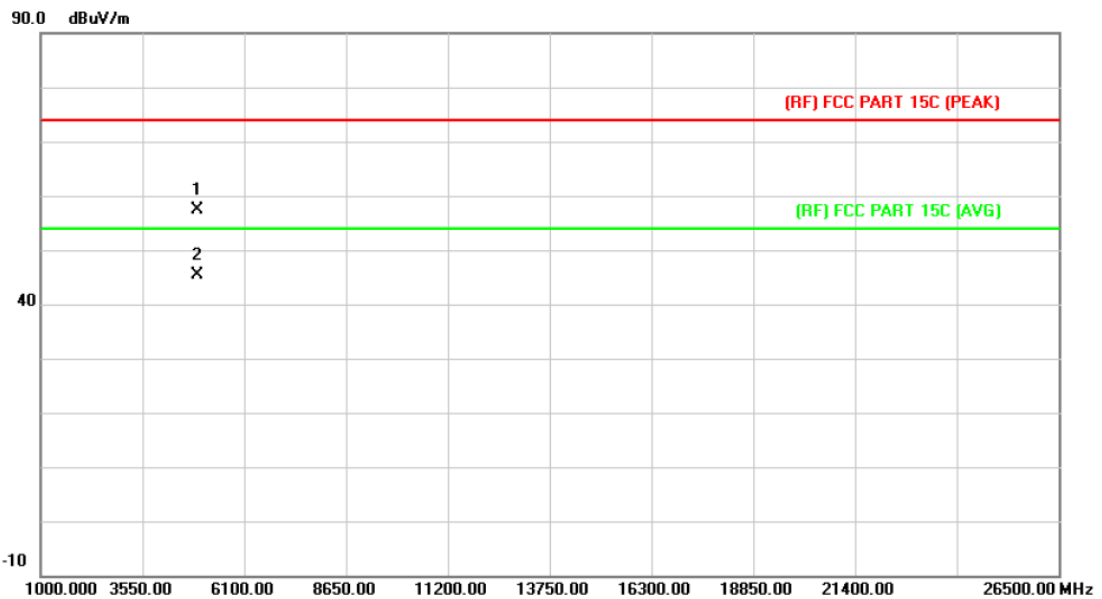
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4874.104	45.38	13.86	59.24	74.00	-14.76	peak
2	*	4874.500	29.29	13.86	43.15	54.00	-10.85	AVG

Emission Level= Read Level+ Correct Factor

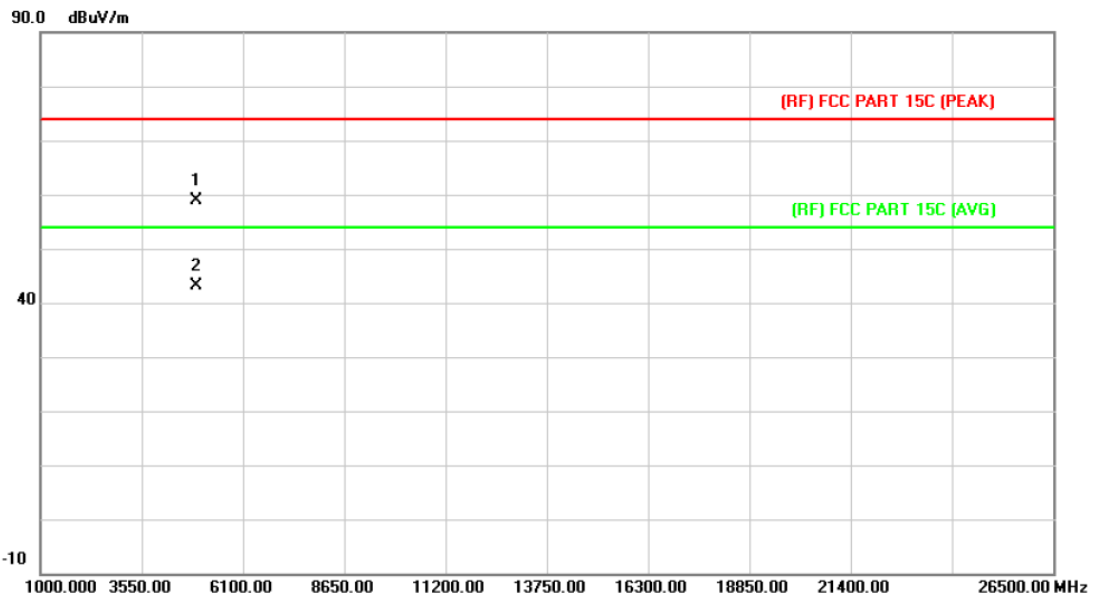
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4923.902	43.22	14.15	57.37	74.00	-16.63	peak
2	*	4924.394	31.23	14.15	45.38	54.00	-8.62	AVG

Emission Level= Read Level+ Correct Factor

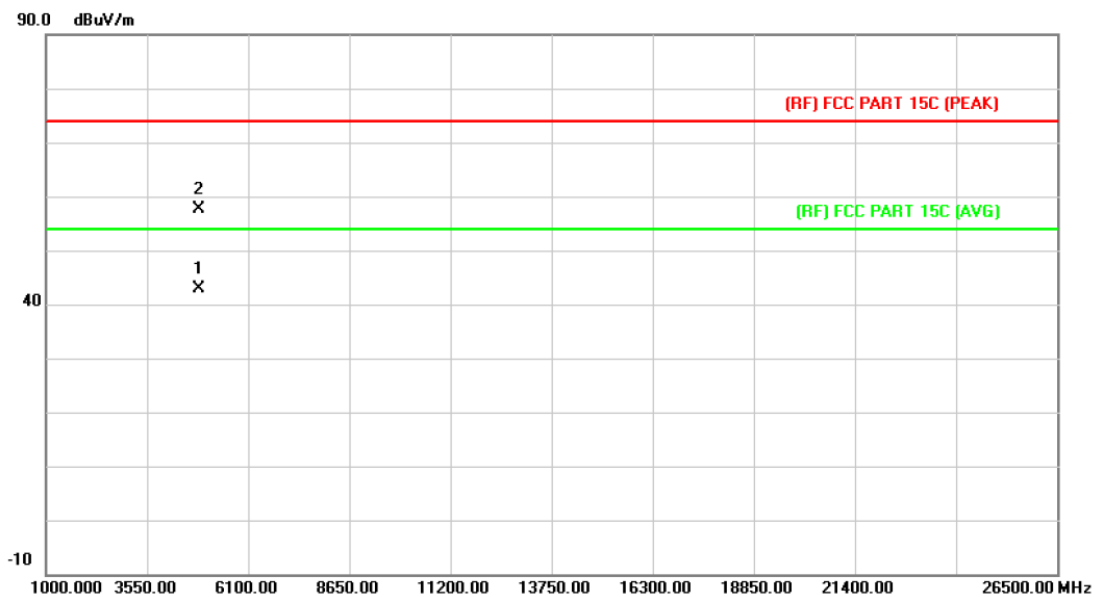
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4923.624	44.63	14.15	58.78	74.00	-15.22	peak
2	*	4924.448	29.02	14.15	43.17	54.00	-10.83	AVG

Emission Level= Read Level+ Correct Factor

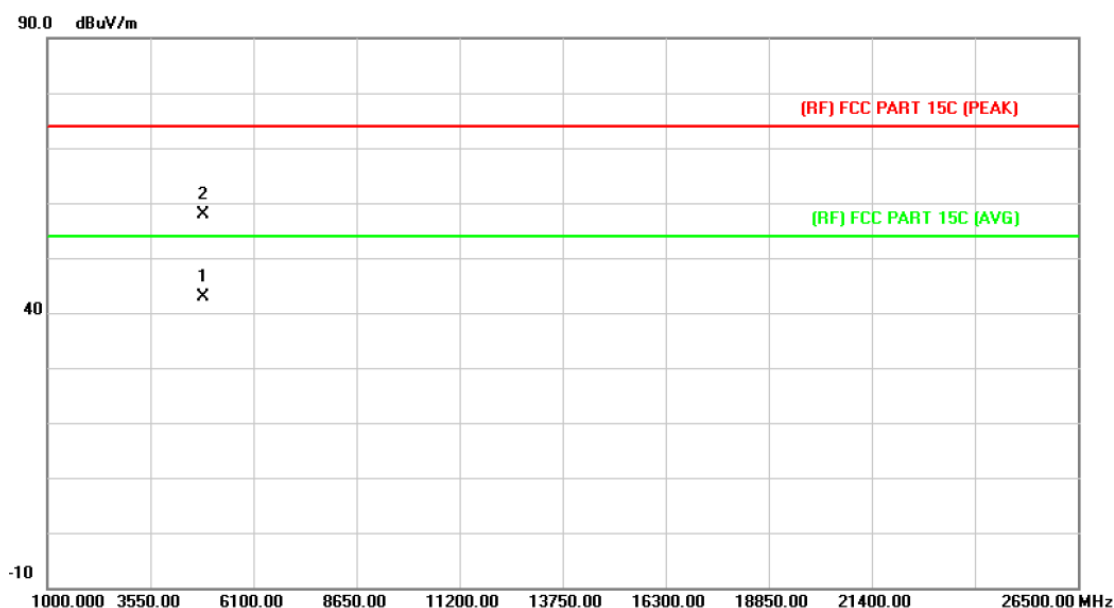
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.552	29.25	13.68	42.93	54.00	-11.07	AVG
2		4844.373	43.90	13.68	57.58	74.00	-16.42	peak

Emission Level= Read Level+ Correct Factor

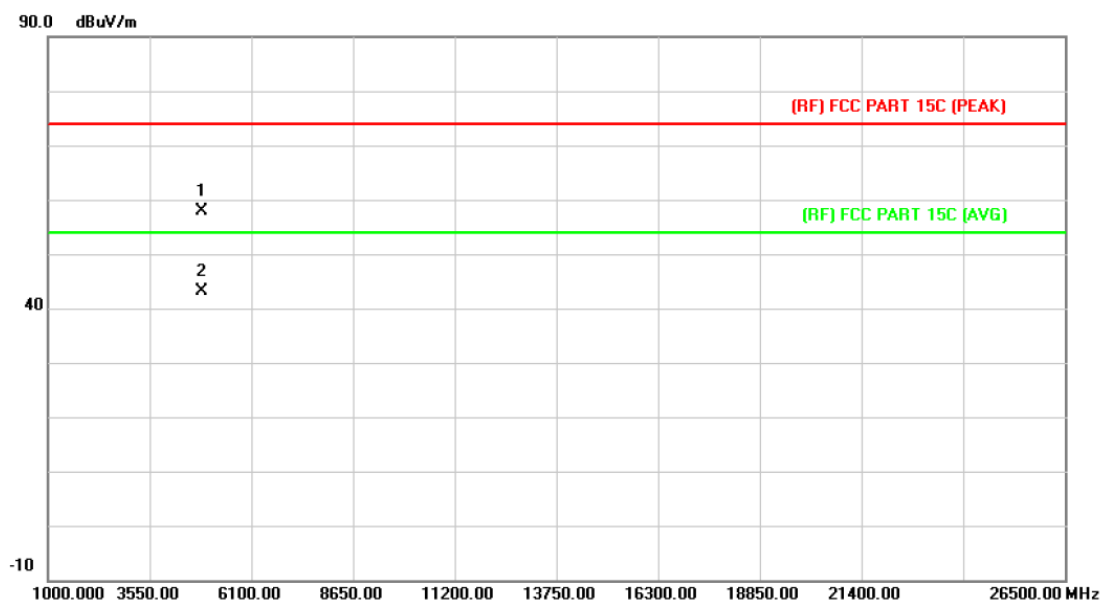
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4843.500	29.28	13.68	42.96	54.00	-11.04	AVG
2		4843.621	44.12	13.68	57.80	74.00	-16.20	peak

Emission Level= Read Level+ Correct Factor

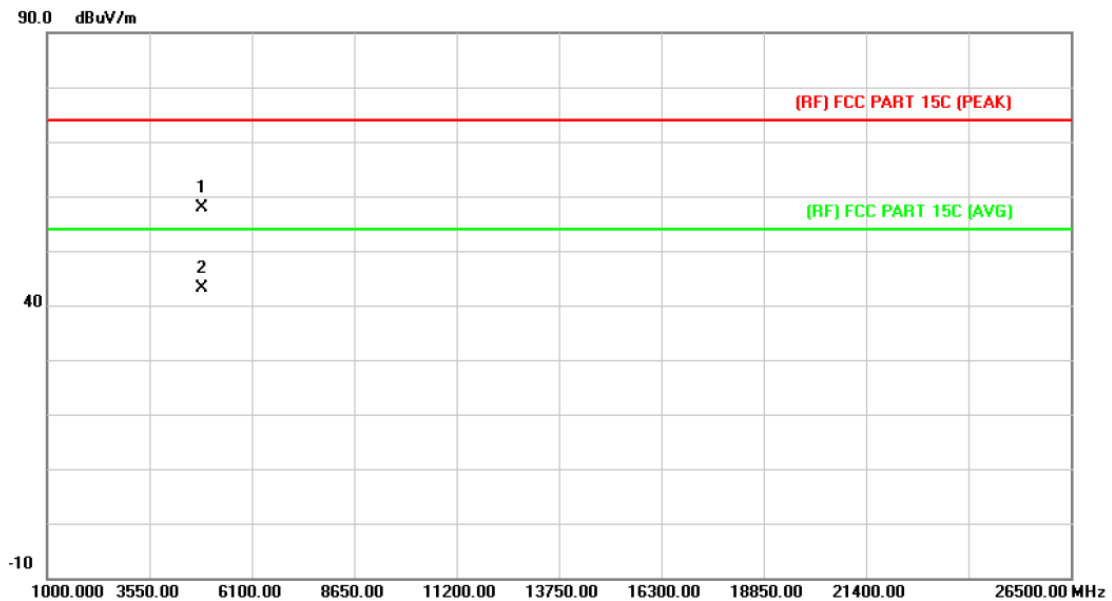
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		4873.951	44.08	13.86	57.94	74.00	-16.06	peak
2	*	4874.395	29.32	13.86	43.18	54.00	-10.82	AVG

Emission Level= Read Level+ Correct Factor

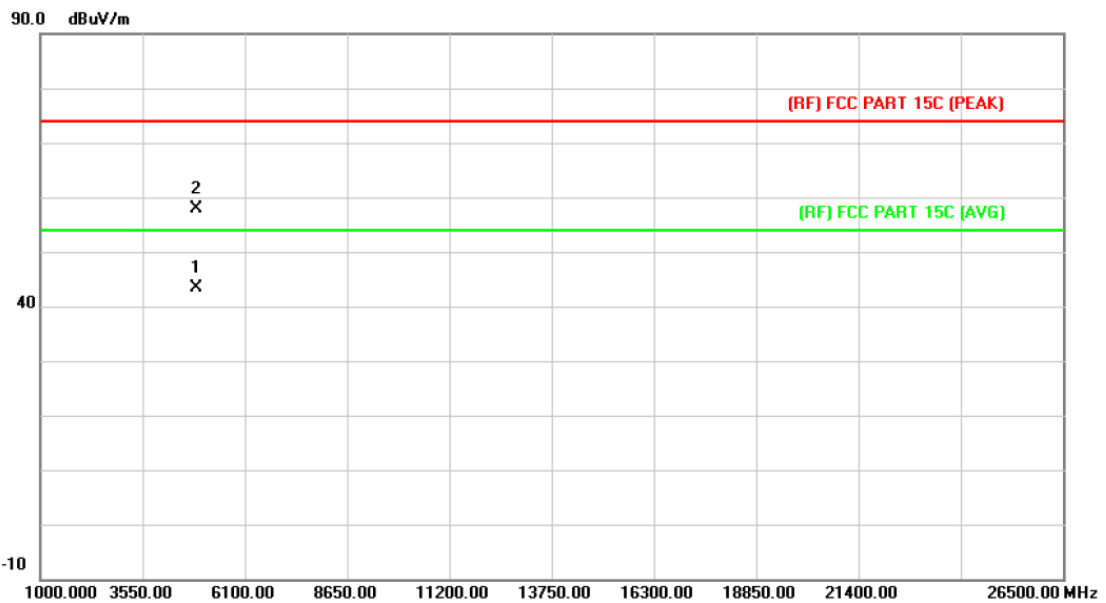
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2437MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4873.563	43.94	13.86	57.80	74.00	-16.20	peak
2	*	4874.343	29.30	13.86	43.16	54.00	-10.84	AVG

Emission Level= Read Level+ Correct Factor

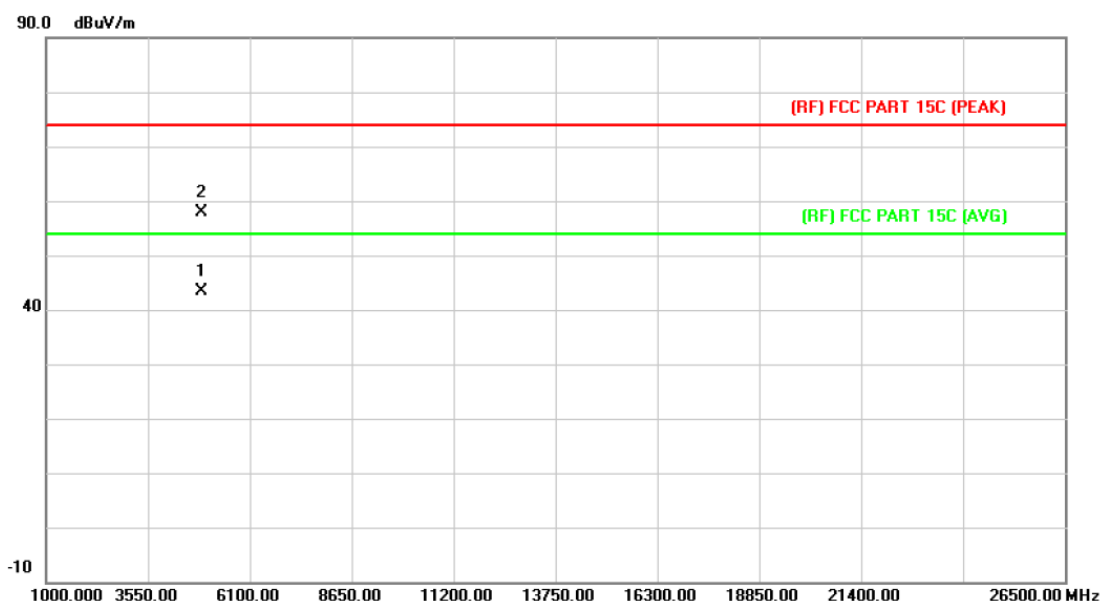
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.710	29.27	14.03	43.30	54.00	-10.70	AVG
2		4904.413	43.89	14.03	57.92	74.00	-16.08	peak

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
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	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4903.657	29.25	14.03	43.28	54.00	-10.72	AVG
2		4904.341	43.91	14.03	57.94	74.00	-16.06	peak

Emission Level= Read Level+ Correct Factor

6. Restricted Bands Requirement

6.1 Test Standard and Limit

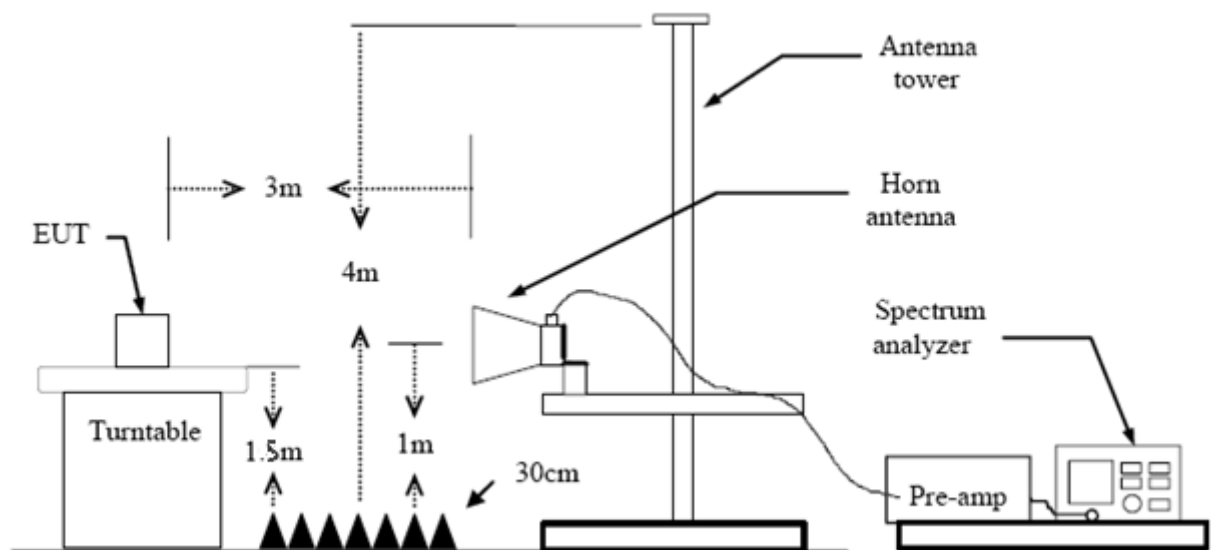
6.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

6.1.2 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 and above 1 GHz. The EUT was placed on a rotating 0.8m high above 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

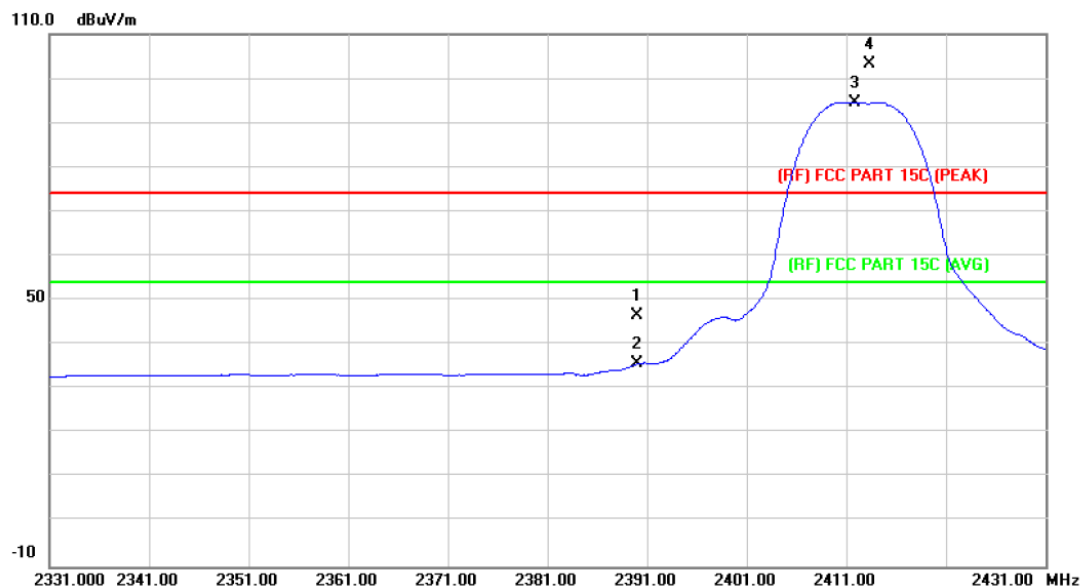
The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Please see the next page.

(1) Radiation Test

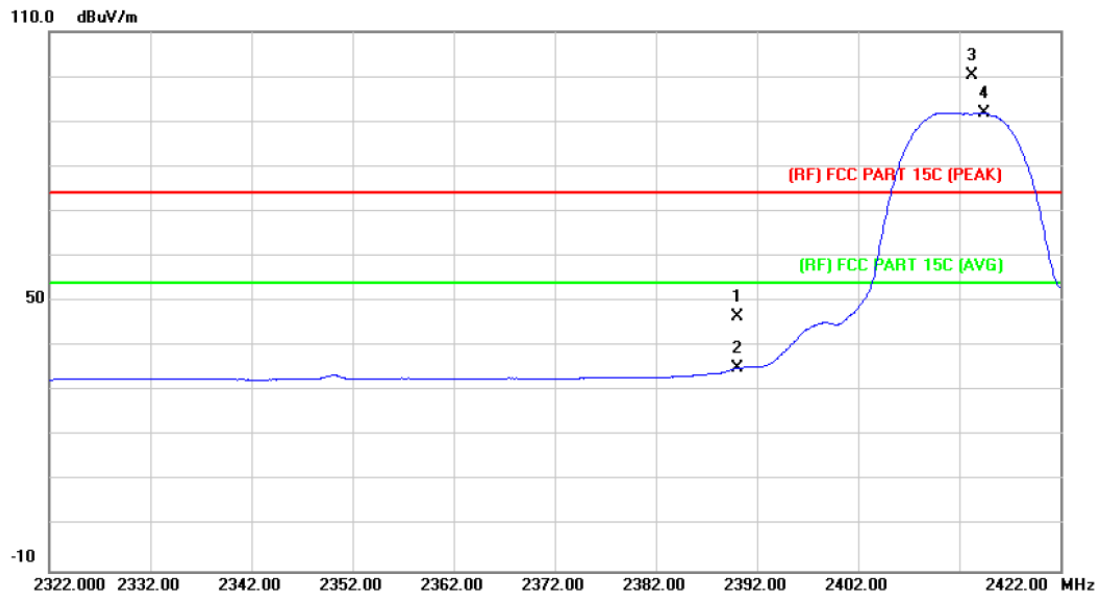
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	45.87	0.77	46.64	74.00	-27.36	peak
2		2390.000	34.90	0.77	35.67	54.00	-18.33	AVG
3	*	2411.900	93.82	0.86	94.68	Fundamental Frequency		AVG
4	X	2413.300	102.27	0.86	103.13	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

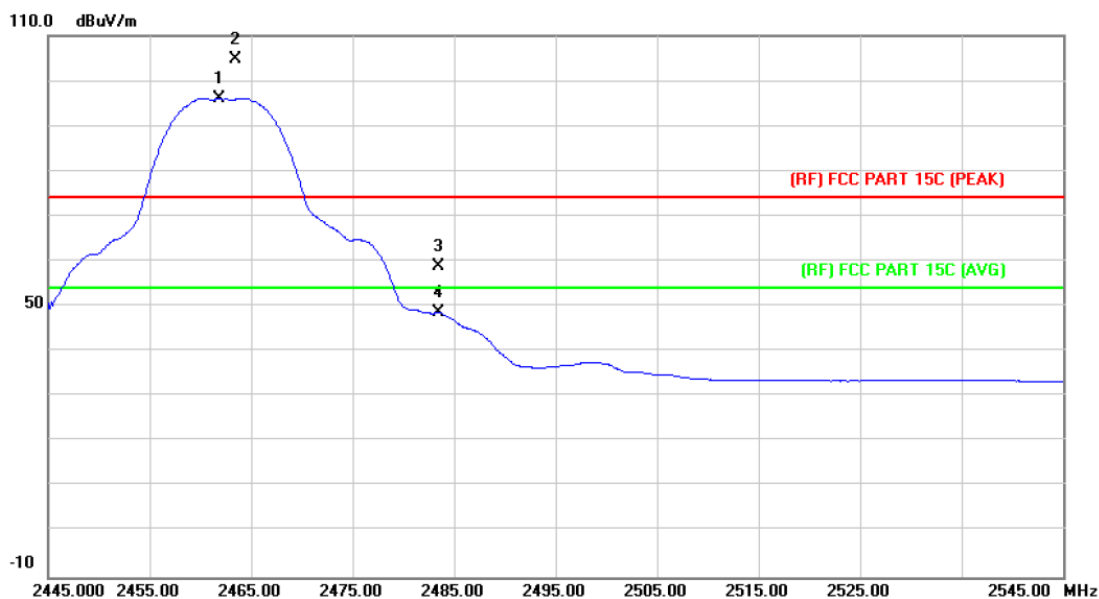
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.64	0.77	46.41	74.00	-27.59	peak
2		2390.000	34.32	0.77	35.09	54.00	-18.91	AVG
3	X	2413.300	99.50	0.86	100.36	Fundamental Frequency		peak
4	*	2414.500	91.08	0.88	91.96	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

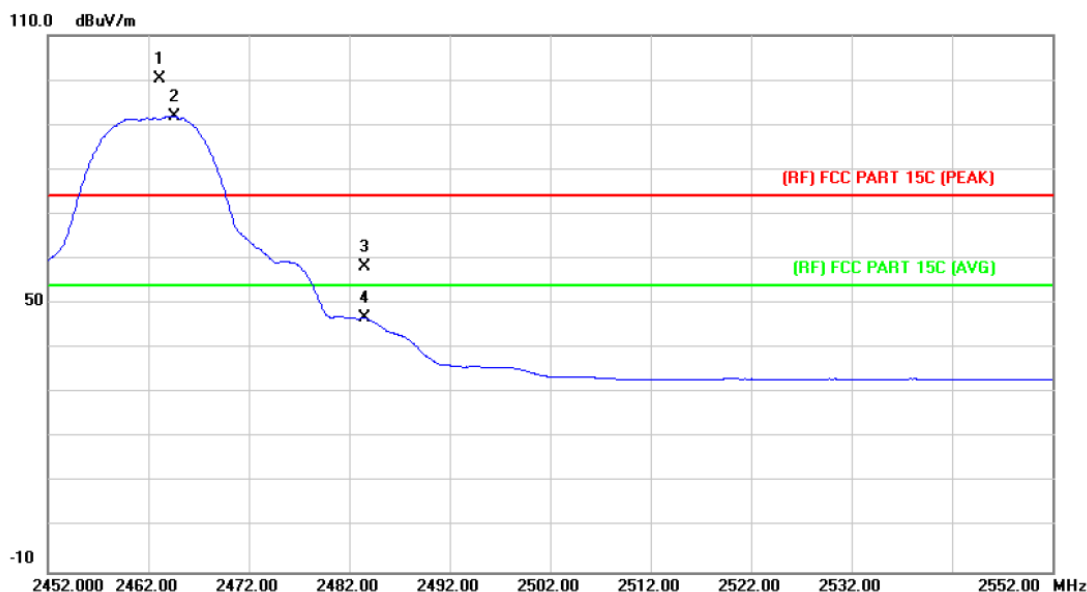
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	2461.900	95.01	1.07	96.08	Fundamental Frequency		AVG
2	X	2463.400	103.54	1.08	104.62	Fundamental Frequency		peak
3		2483.500	57.64	1.17	58.81	74.00	-15.19	peak
4		2483.500	47.45	1.17	48.62	54.00	-5.38	AVG

Emission Level= Read Level+ Correct Factor

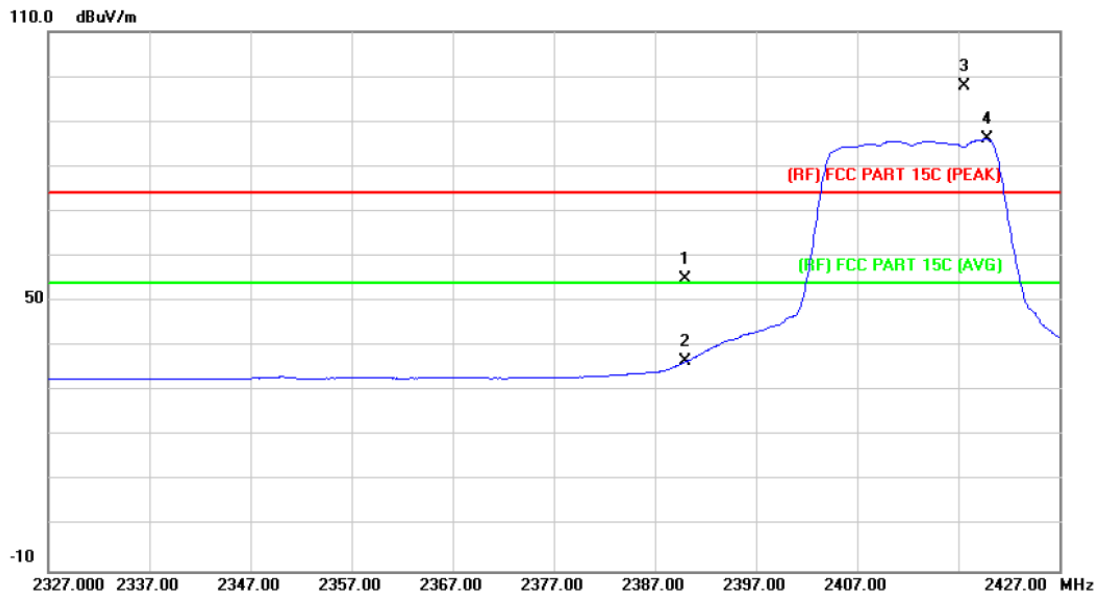
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX B Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2463.200	99.17	1.08	100.25	Fundamental Frequency		peak
2	*	2464.600	90.86	1.09	91.95	Fundamental Frequency		AVG
3		2483.500	56.99	1.17	58.16	74.00	-15.84	peak
4		2483.500	45.69	1.17	46.86	54.00	-7.14	AVG

Emission Level= Read Level+ Correct Factor

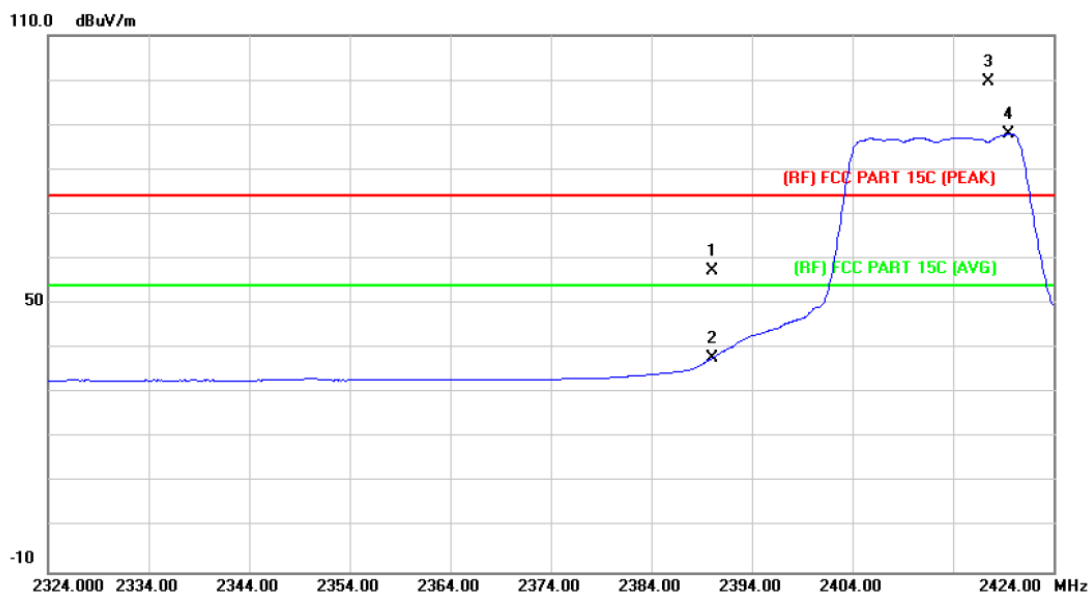
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	54.19	0.77	54.96	74.00	-19.04	peak
2		2390.000	35.78	0.77	36.55	54.00	-17.45	AVG
3	X	2417.600	96.83	0.89	97.72	Fundamental Frequency		peak
4	*	2419.800	85.16	0.89	86.05	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

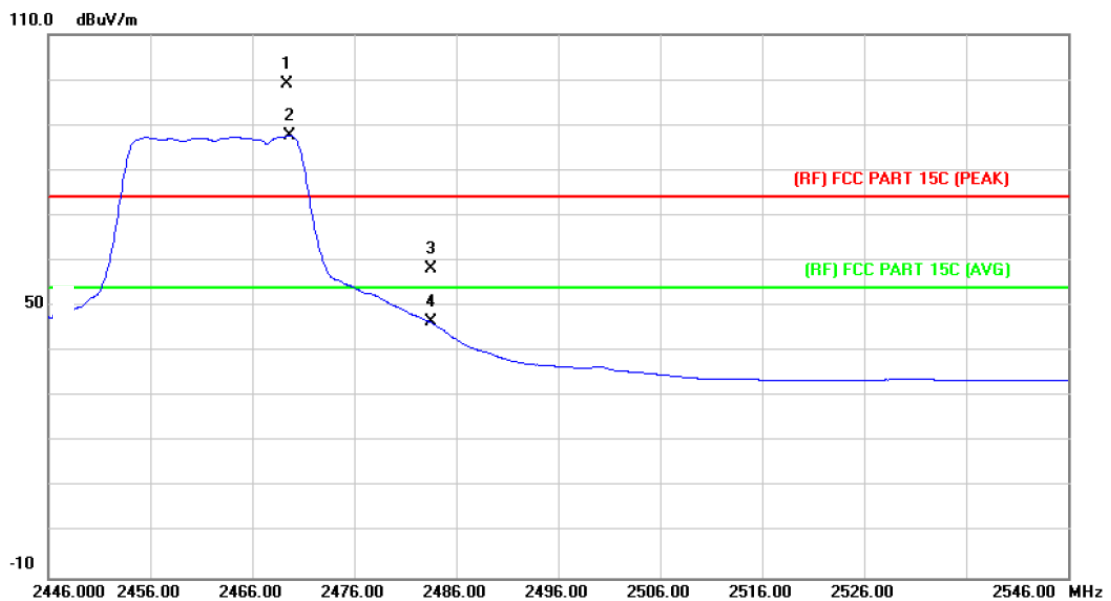
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	56.61	0.77	57.38	74.00	-16.62	peak
2		2390.000	36.99	0.77	37.76	54.00	-16.24	AVG
3	X	2417.600	98.72	0.89	99.61	Fundamental Frequency		peak
4	*	2419.600	87.05	0.89	87.94	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

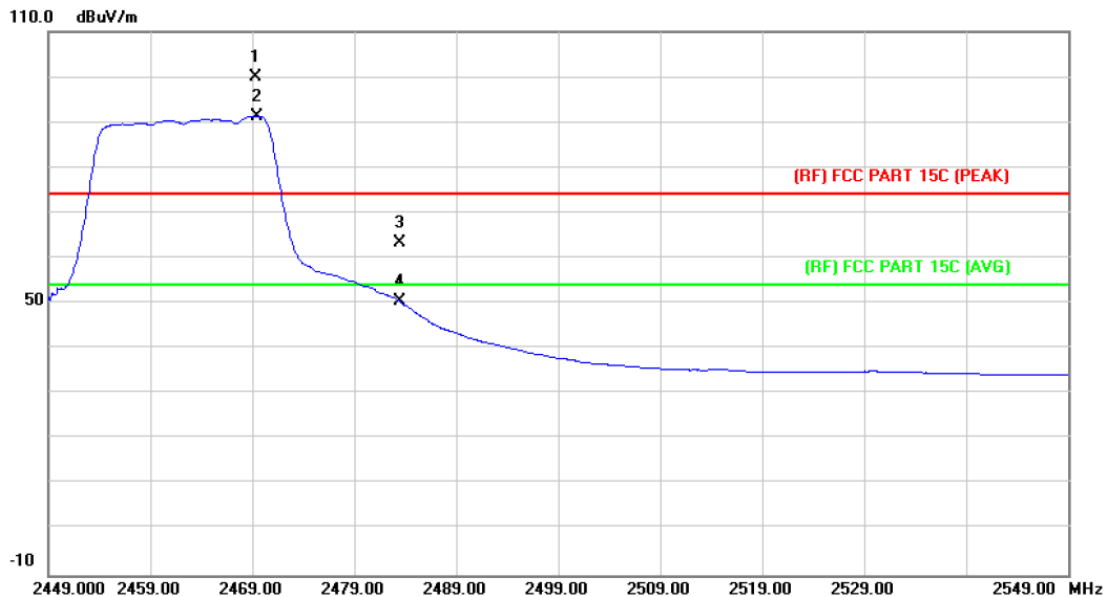
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.400	97.93	1.11	99.04	Fundamental Frequency		peak
2	*	2469.700	86.50	1.11	87.61	Fundamental Frequency		AVG
3		2483.500	57.09	1.17	58.26	74.00	-15.74	peak
4		2483.500	45.25	1.17	46.42	54.00	-7.58	AVG

Emission Level= Read Level+ Correct Factor

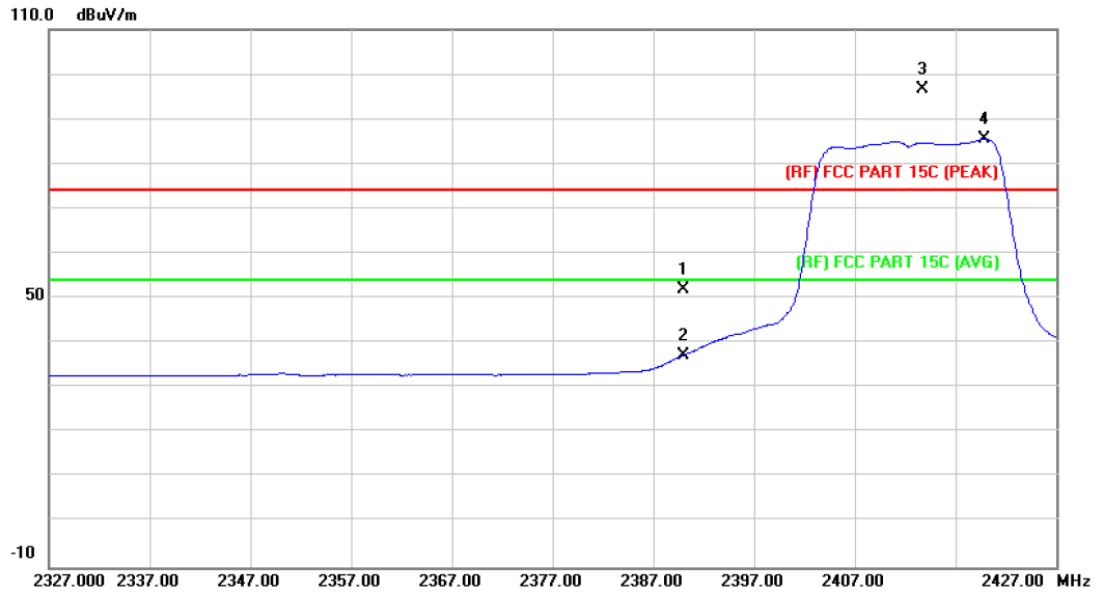
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX G Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.300	98.91	1.11	100.02	Fundamental Frequency	?	peak
2	*	2469.400	90.25	1.11	91.36	Fundamental Frequency	;	AVG
3		2483.500	62.23	1.17	63.40	74.00	-10.60	peak
4		2483.500	49.25	1.17	50.42	54.00	-3.58	AVG

Emission Level= Read Level+ Correct Factor

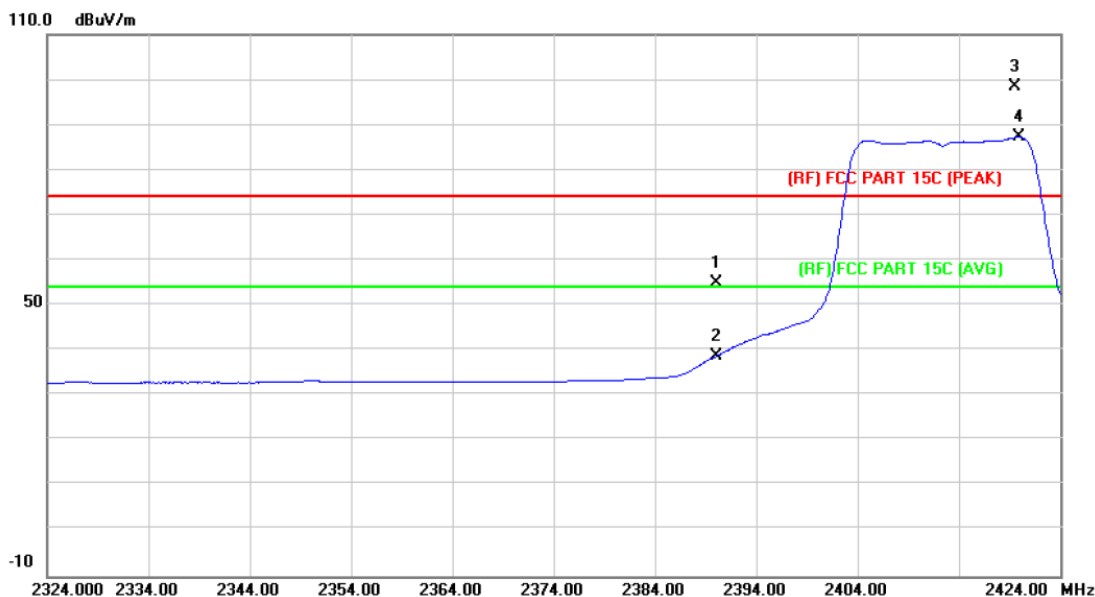
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	51.30	0.77	52.07	74.00	-21.93	peak
2		2390.000	36.56	0.77	37.33	54.00	-16.67	AVG
3	X	2413.700	95.83	0.86	96.69	Fundamental Frequency		peak
4	*	2419.900	84.68	0.89	85.57	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

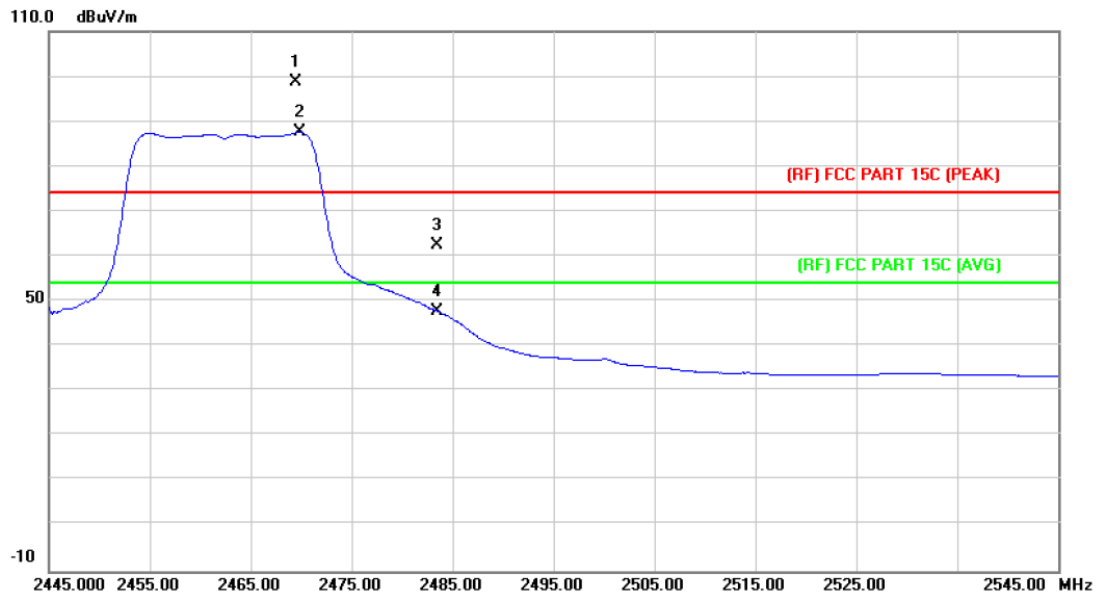
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2412MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	54.16	0.77	54.93	74.00	-19.07	peak
2		2390.000	37.94	0.77	38.71	54.00	-15.29	AVG
3	X	2419.500	97.69	0.89	98.58	Fundamental Frequency		peak
4	*	2419.900	86.47	0.89	87.36	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

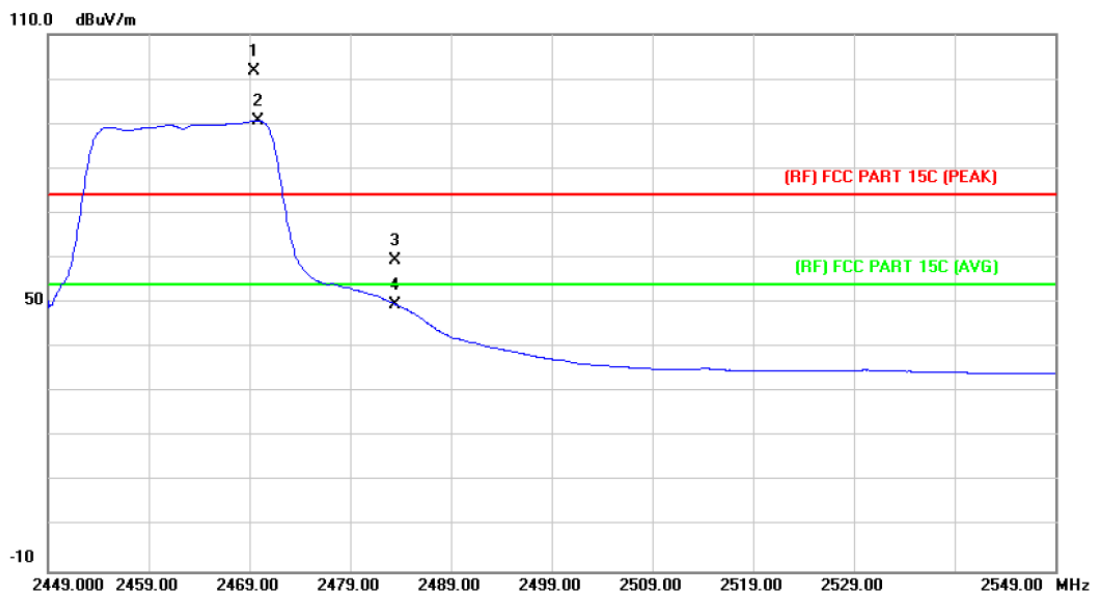
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.500	97.61	1.11	98.72	Fundamental Frequency		peak
2	*	2469.800	86.53	1.11	87.64	Fundamental Frequency		AVG
3		2483.500	61.28	1.17	62.45	74.00	-11.55	peak
4		2483.500	46.64	1.17	47.81	54.00	-6.19	AVG

Emission Level= Read Level+ Correct Factor

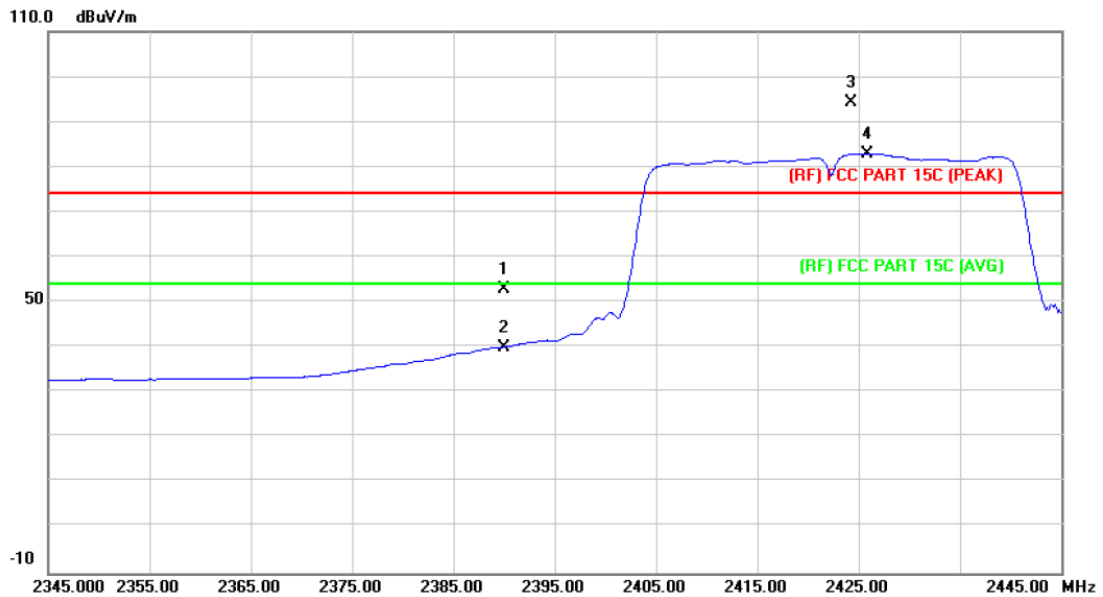
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT20) Mode 2462MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2469.400	100.77	1.11	101.88	Fundamental Frequency		peak
2	*	2469.800	89.67	1.11	90.78	Fundamental Frequency		AVG
3		2483.500	58.26	1.17	59.43	74.00	-14.57	peak
4		2483.500	48.52	1.17	49.69	54.00	-4.31	AVG

Emission Level= Read Level+ Correct Factor

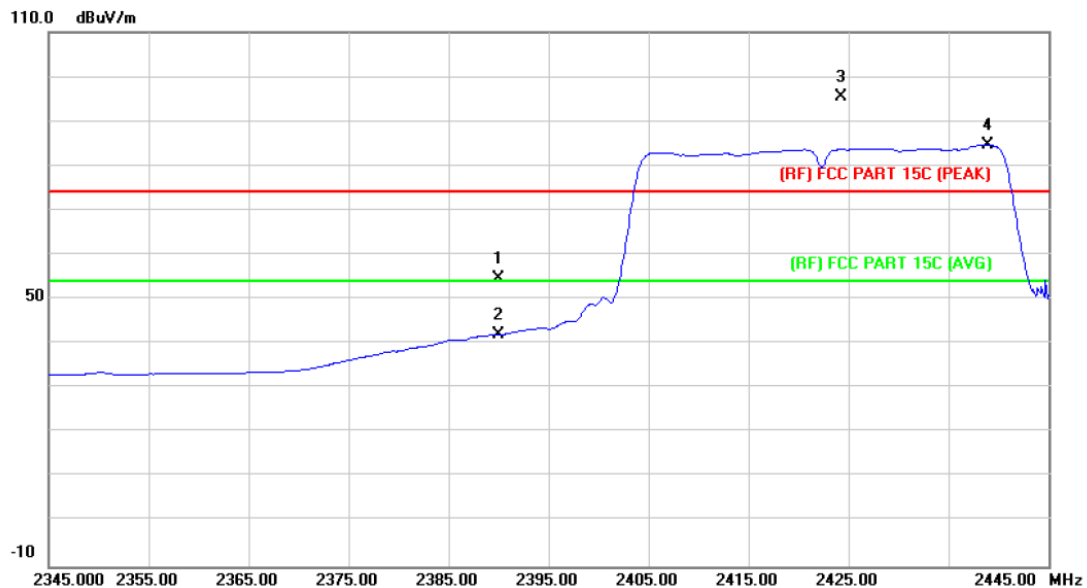
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	52.13	0.77	52.90	74.00	-21.10 peak
2		2390.000	39.33	0.77	40.10	54.00	-13.90 AVG
3	X	2424.300	93.38	0.93	94.31	Fundamental Frequency peak	
4	*	2425.800	81.94	0.93	82.87	Fundamental Frequency AVG	

Emission Level= Read Level+ Correct Factor

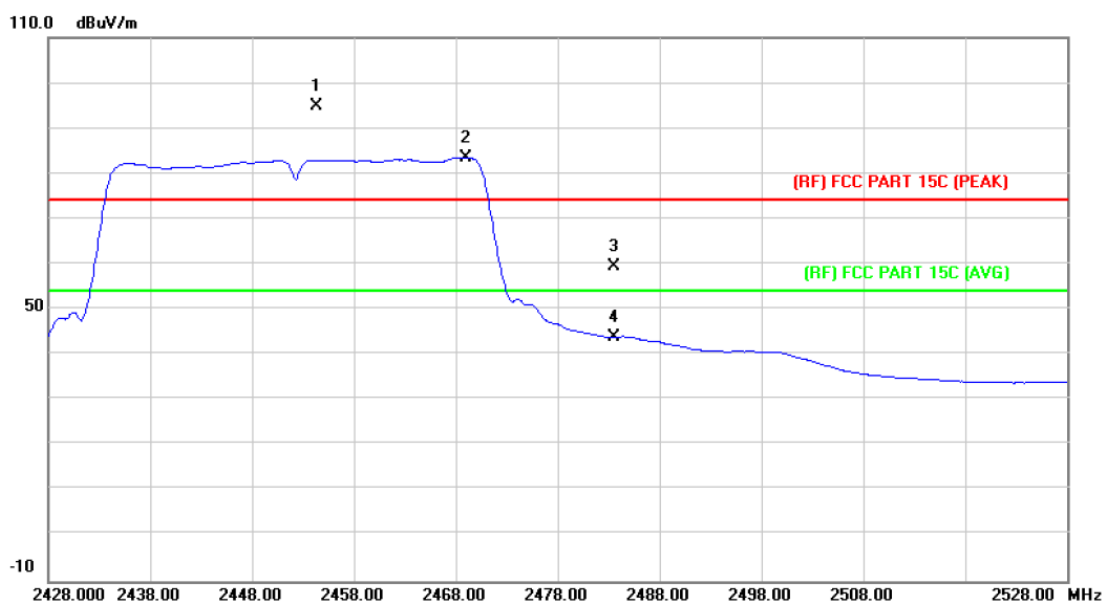
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	53.98	0.77	54.75	74.00	-19.25	peak
2		2390.000	41.26	0.77	42.03	54.00	-11.97	AVG
3	X	2424.300	94.60	0.93	95.53	Fundamental Frequency		peak
4	*	2438.900	83.75	0.98	84.73	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

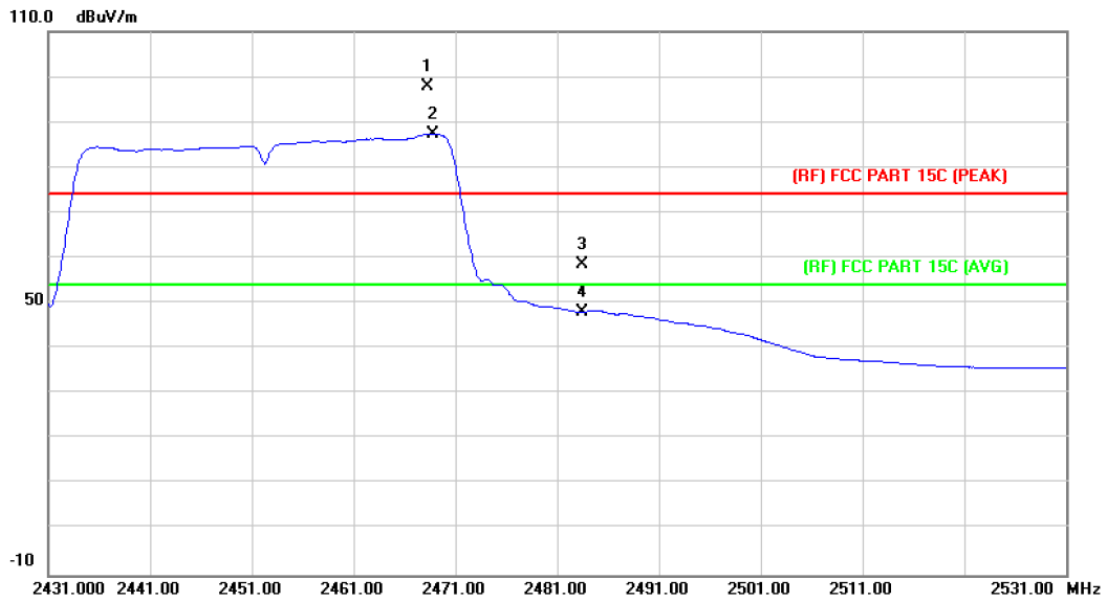
EUT:	Wireless IP Camera	Model:	QRT-60 1
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2454.300	93.75	1.04	94.79	Fundamental Frequency		peak
2	*	2469.000	82.44	1.11	83.55	Fundamental Frequency		AVG
3		2483.500	58.28	1.17	59.45	74.00	-14.55	peak
4		2483.500	42.60	1.17	43.77	54.00	-10.23	AVG

Emission Level= Read Level+ Correct Factor

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz		
Remark:	N/A		

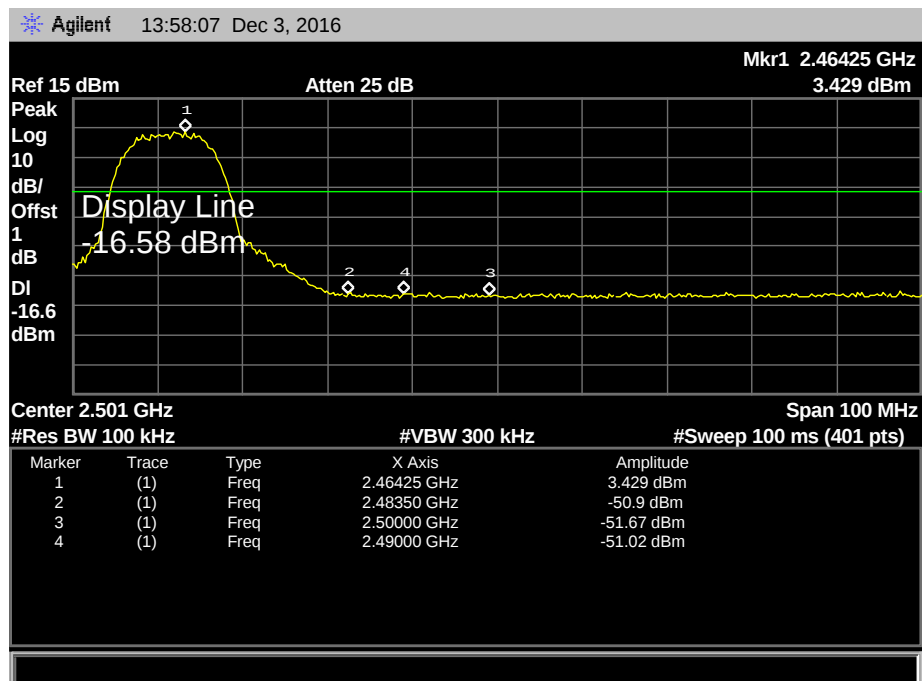
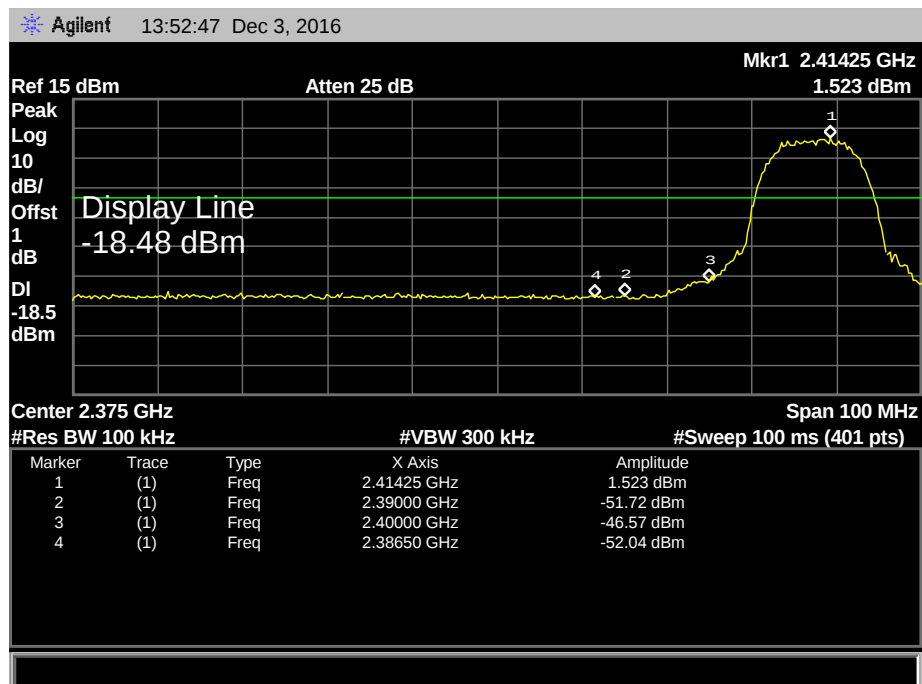


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2468.300	96.78	1.11	97.89	Fundamental Frequency		peak
2	*	2468.800	86.32	1.11	87.43	Fundamental Frequency		AVG
3		2483.500	57.25	1.17	58.42	74.00	-15.58	peak
4		2483.500	46.84	1.17	48.01	54.00	-5.99	AVG

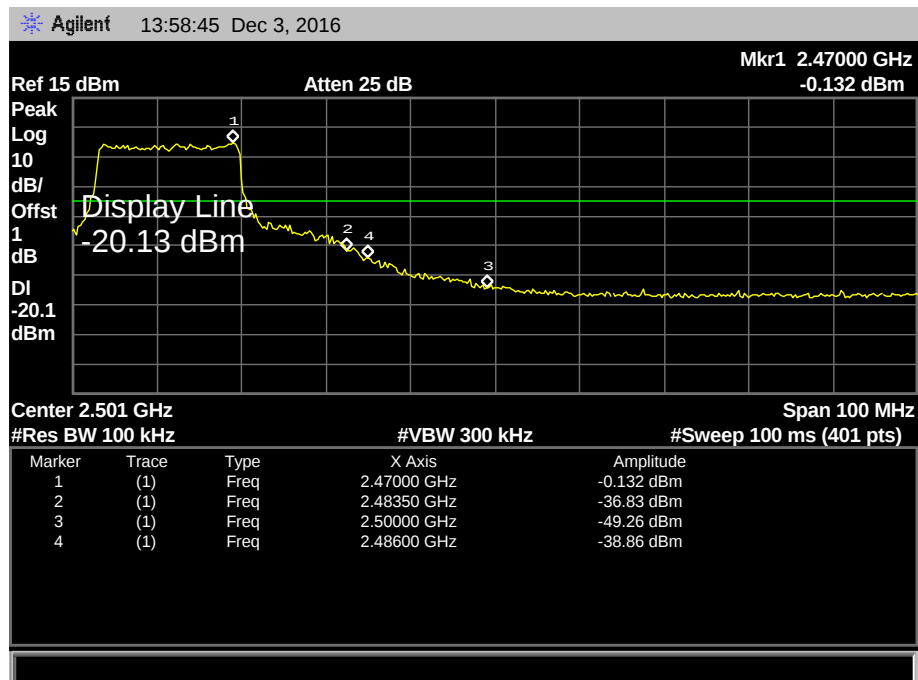
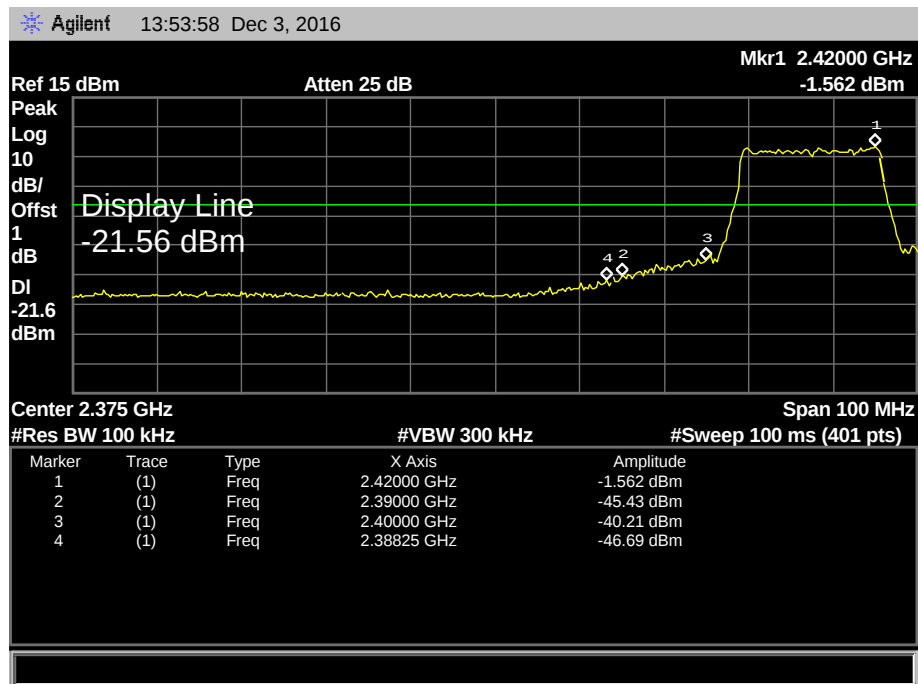
Emission Level= Read Level+ Correct Factor

(2) Conducted Test

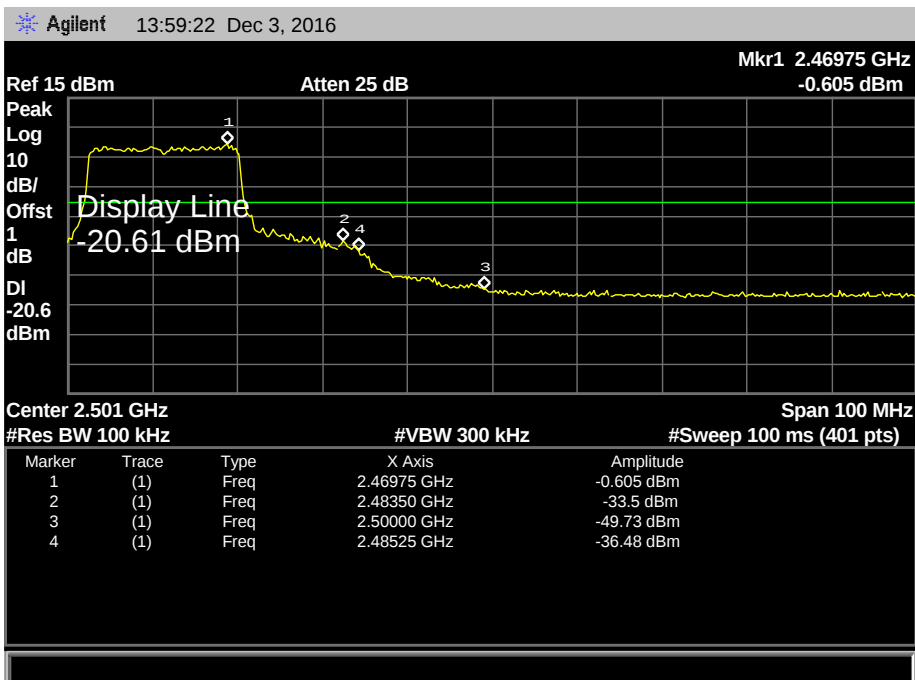
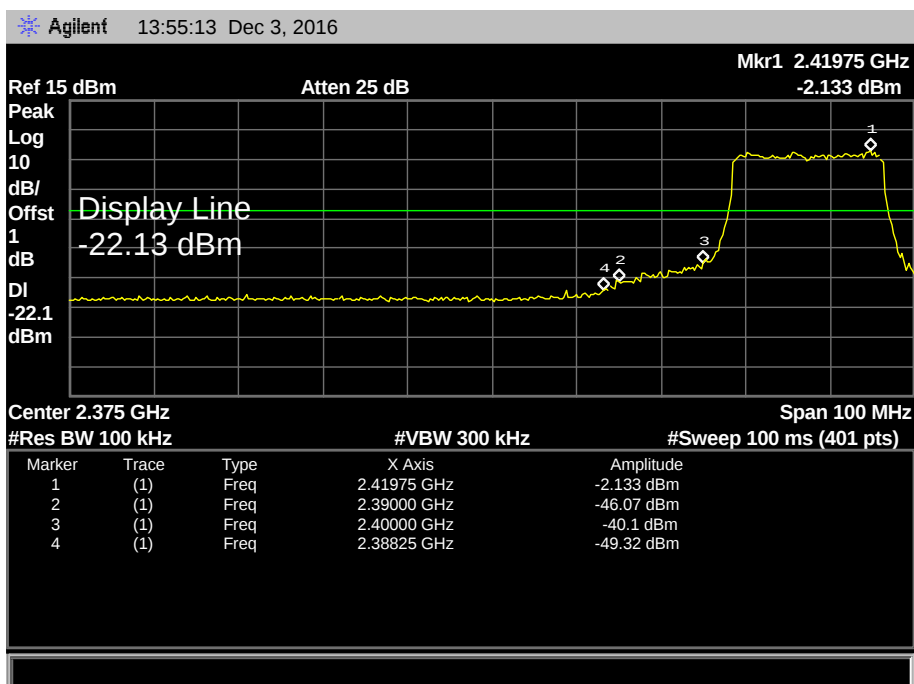
EUT:	Wireless IP Camera	Model:	QRT-60 1
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



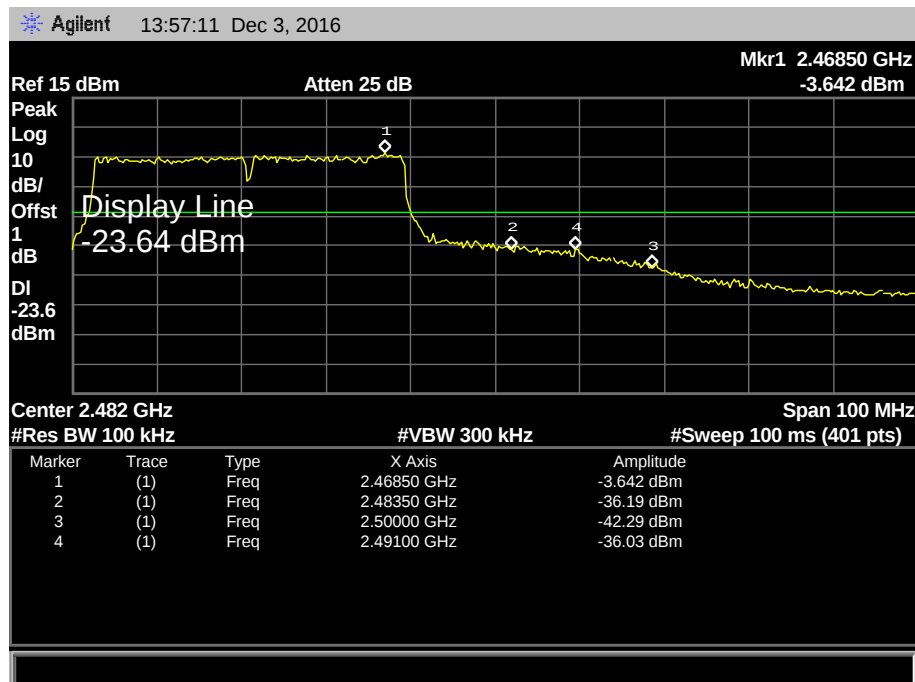
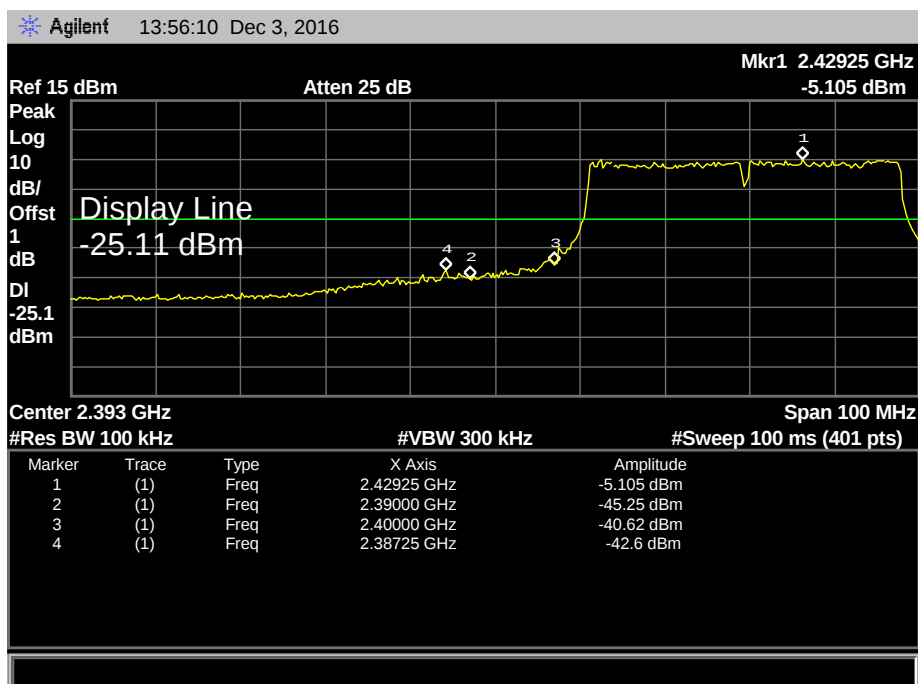
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz		
Remark:	The EUT is programed in continuously transmitting mode		



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
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

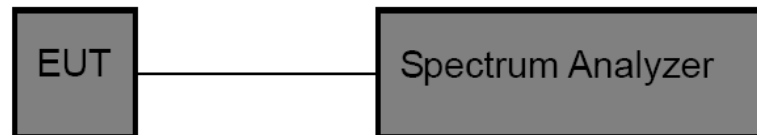
7.1.1 Test Standard

FCC Part 15.247 (a)(2)

7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
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, Digital photo framesdle and high channel for the test.

7.5 Test Data

EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11B Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	9.310	12.0298	>=0.5
2437	9.186	12.0277	
2462	9.306	12.0312	

802.11B Mode

2412 MHz

Agilent13:30:46Dec 3, 2016

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

12.0298 MHz

Transmit Freq Error

311.025 kHz

x dB Bandwidth

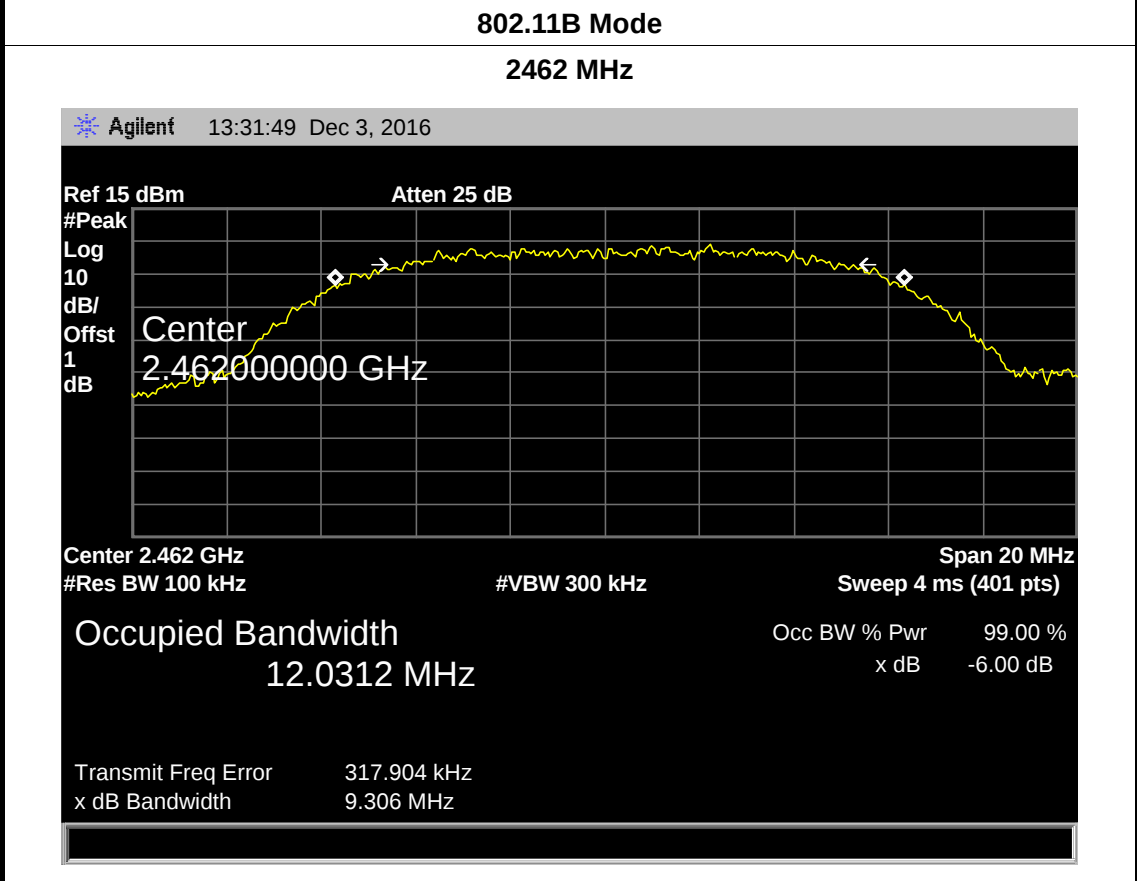
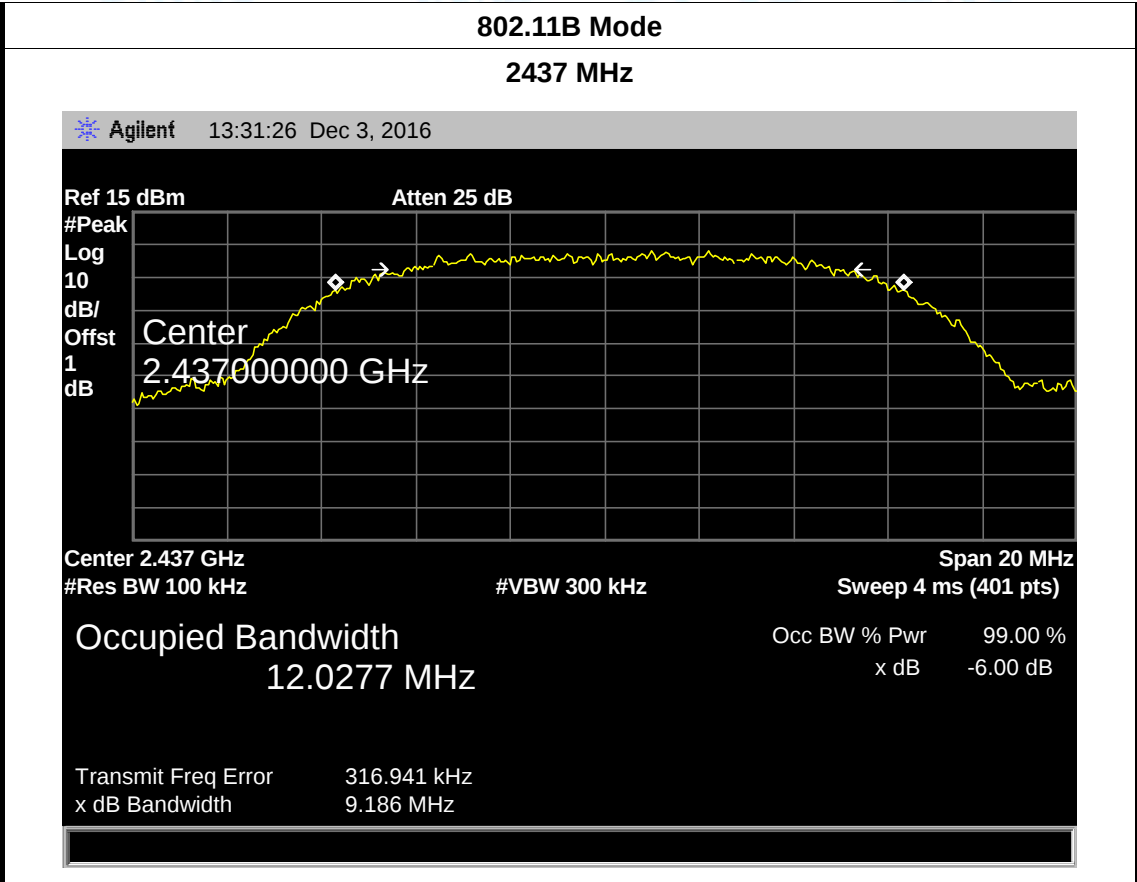
9.310 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11G Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.586	16.4685	>=0.5
2437	16.562	16.4520	
2462	16.561	16.4654	
802.11G Mode			
2412 MHz			

Agilent 13:32:14 Dec 3, 2016

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

16.4685 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

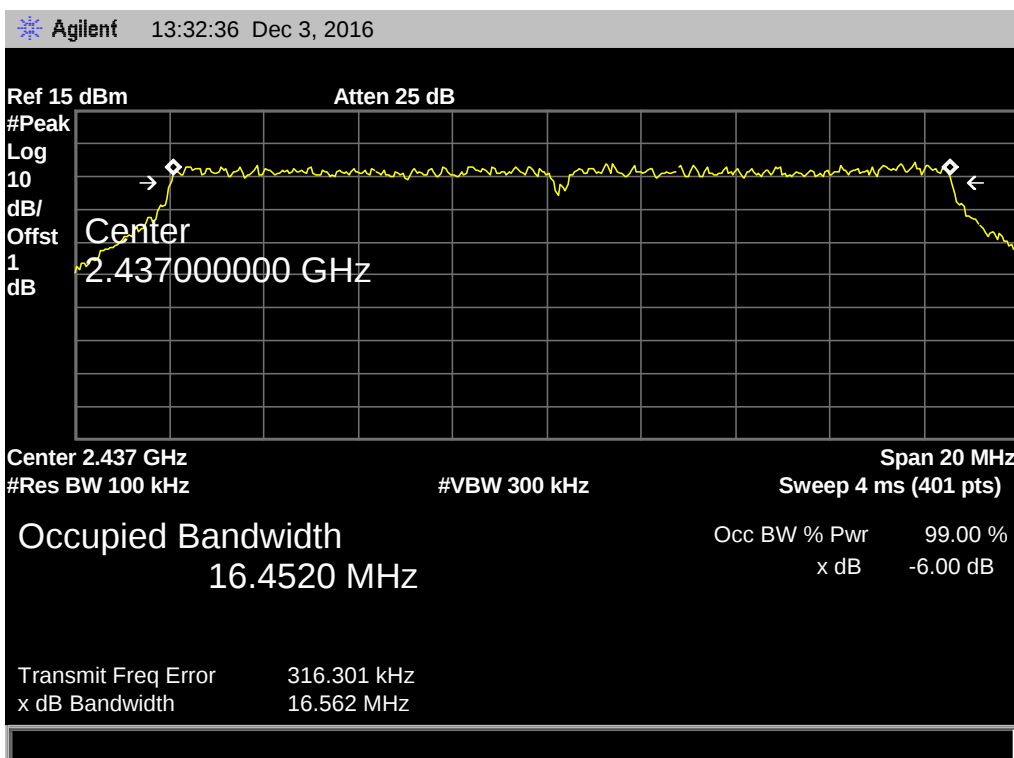
311.099 kHz

x dB Bandwidth

16.586 MHz

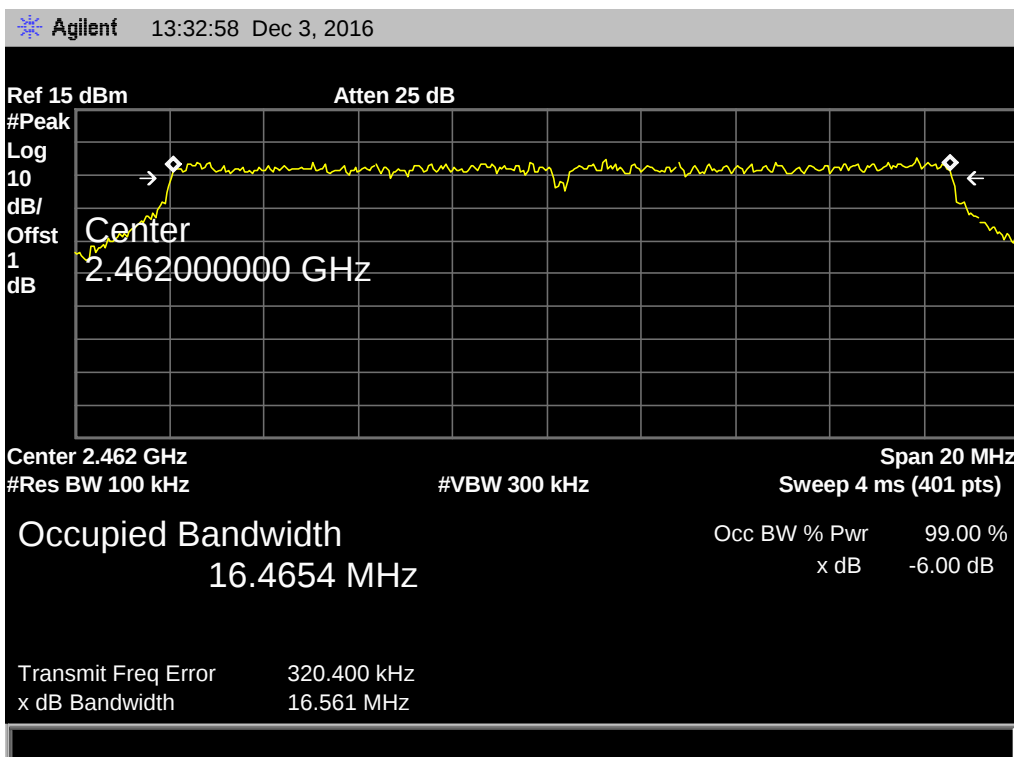
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	17.743	17.5649	>=0.5
2437	17.760	17.5747	
2462	17.757	17.5708	

802.11N(HT20) Mode

2412 MHz

Agilent13:33:26Dec 3, 2016

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

17.5649 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

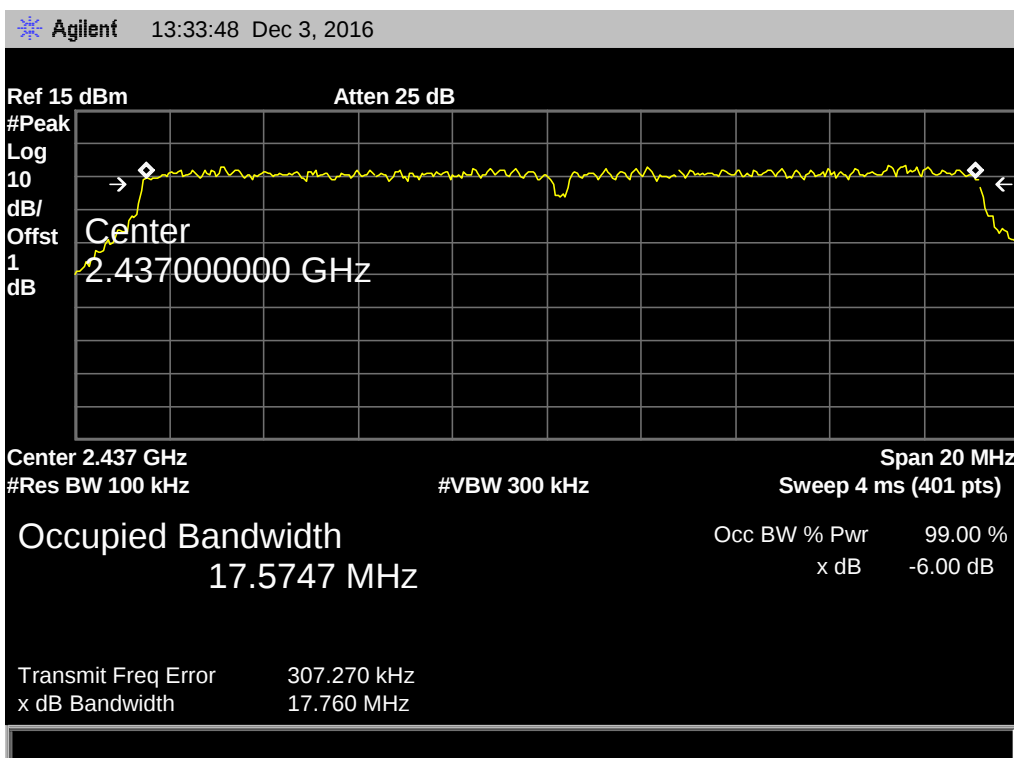
309.364 kHz

x dB Bandwidth

17.743 MHz

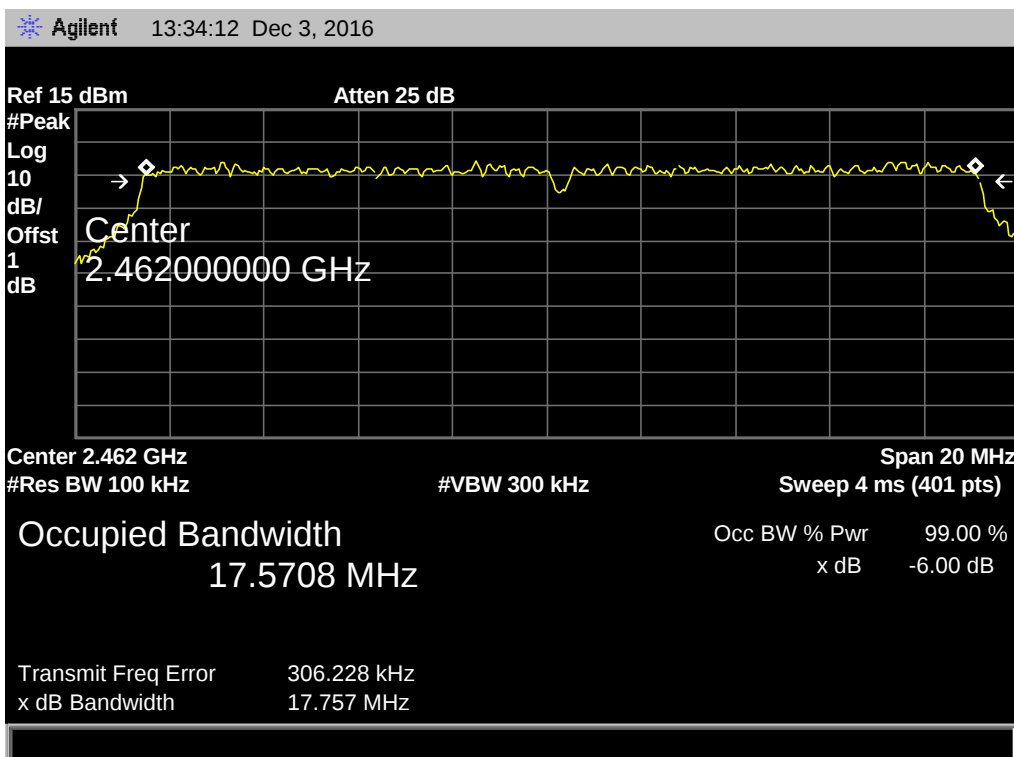
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

2462 MHz



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT40) Mode		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	36.509	36.1328	>=0.5
2437	36.577	36.1776	
2452	36.528	36.1459	
802.11N(HT40) Mode			
2422 MHz			

Agilent 13:35:14 Dec 3, 2016

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

Sweep 4.144 ms (401 pts)

Span 40 MHz

Occupied Bandwidth

36.1328 MHz

Occ BW % Pwr

99.00 %

x dB

-6.00 dB

Transmit Freq Error

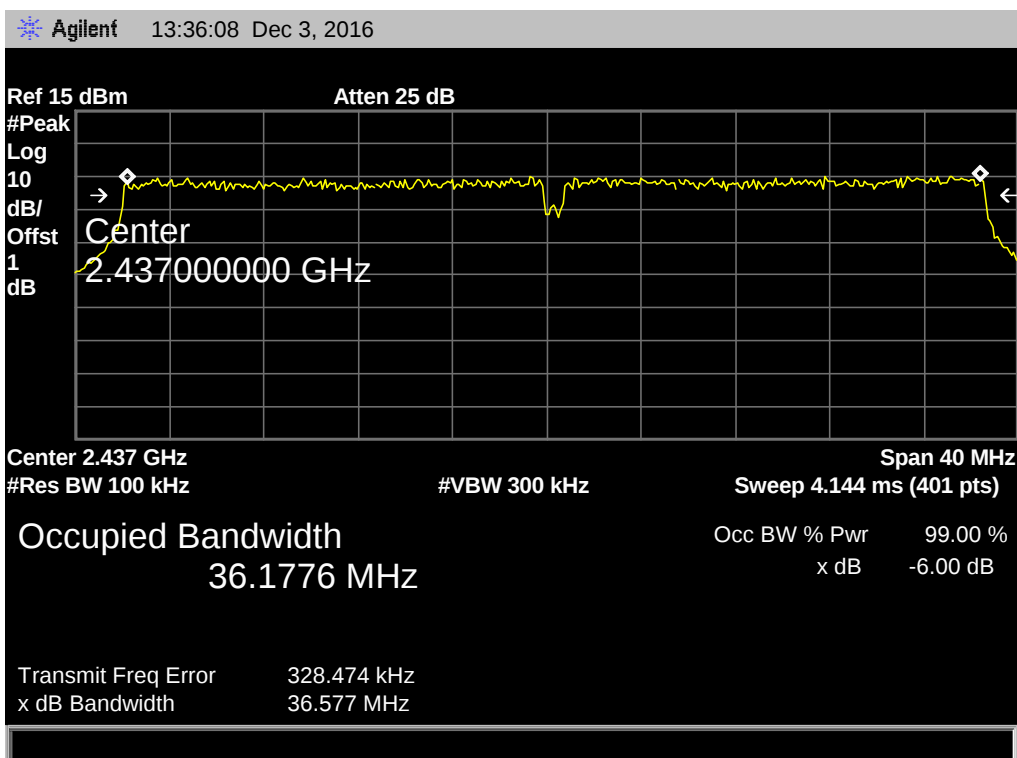
322.462 kHz

x dB Bandwidth

36.509 MHz

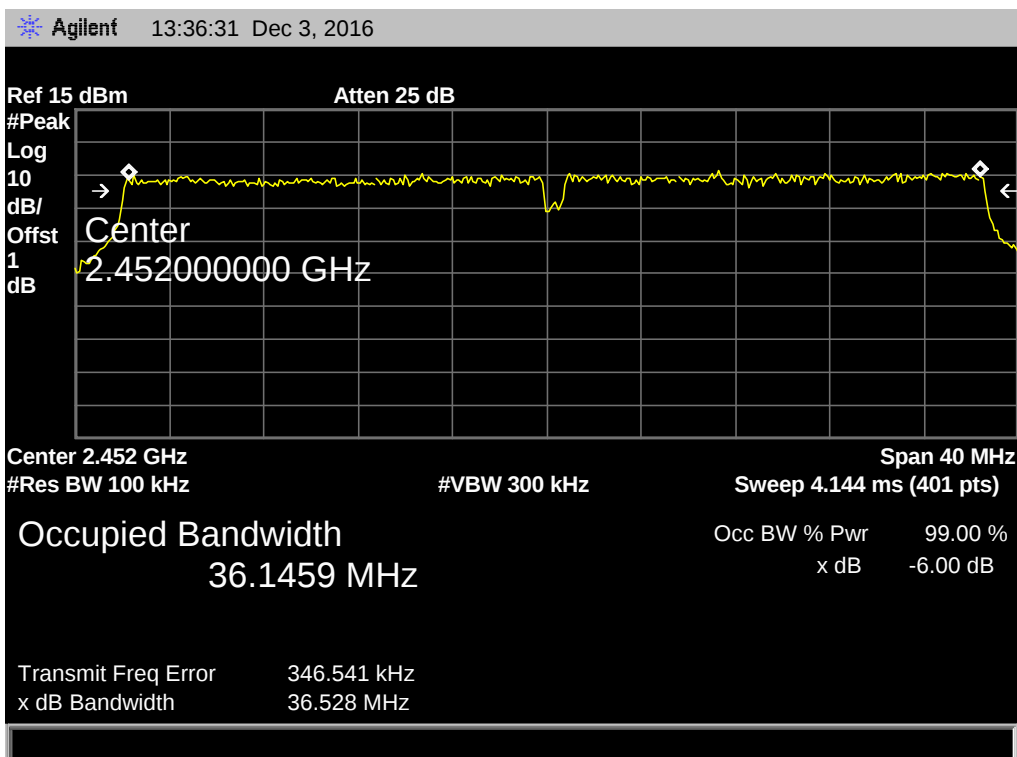
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



8. Peak Output Power Test

8.1 Test Standard and Limit

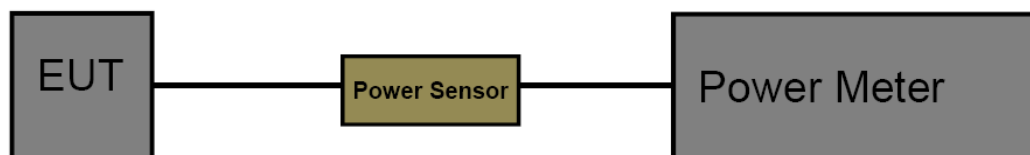
8.1.1 Test Standard

FCC Part 15.247 (b)

8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-210		
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 v03r05.

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

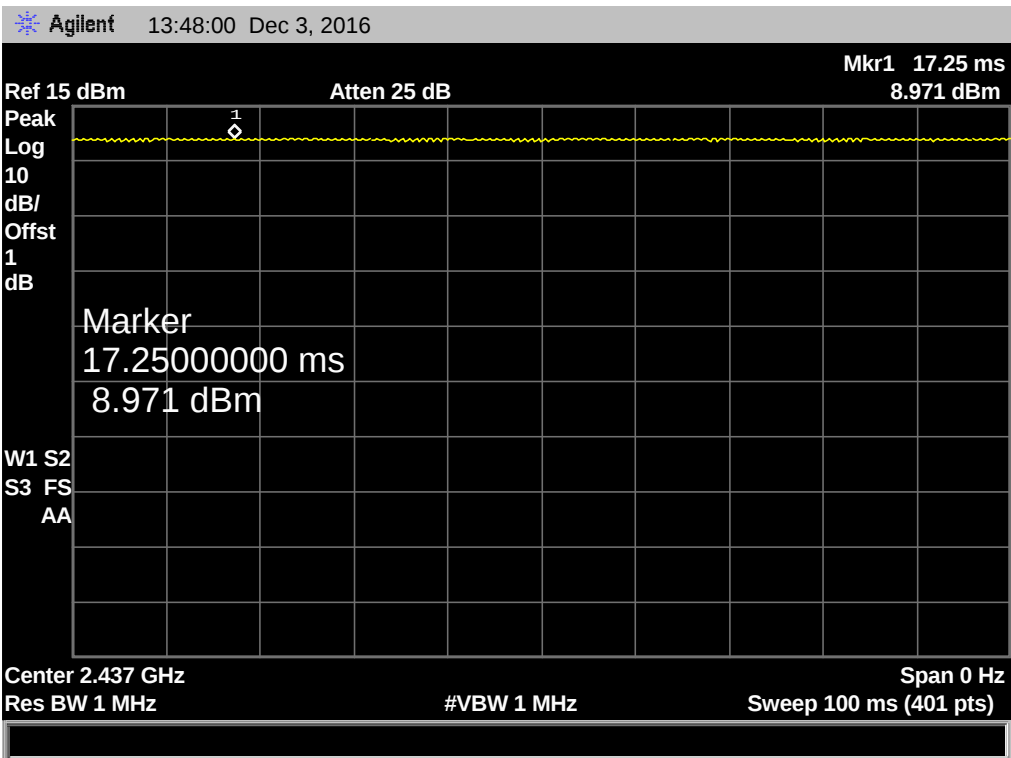
The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

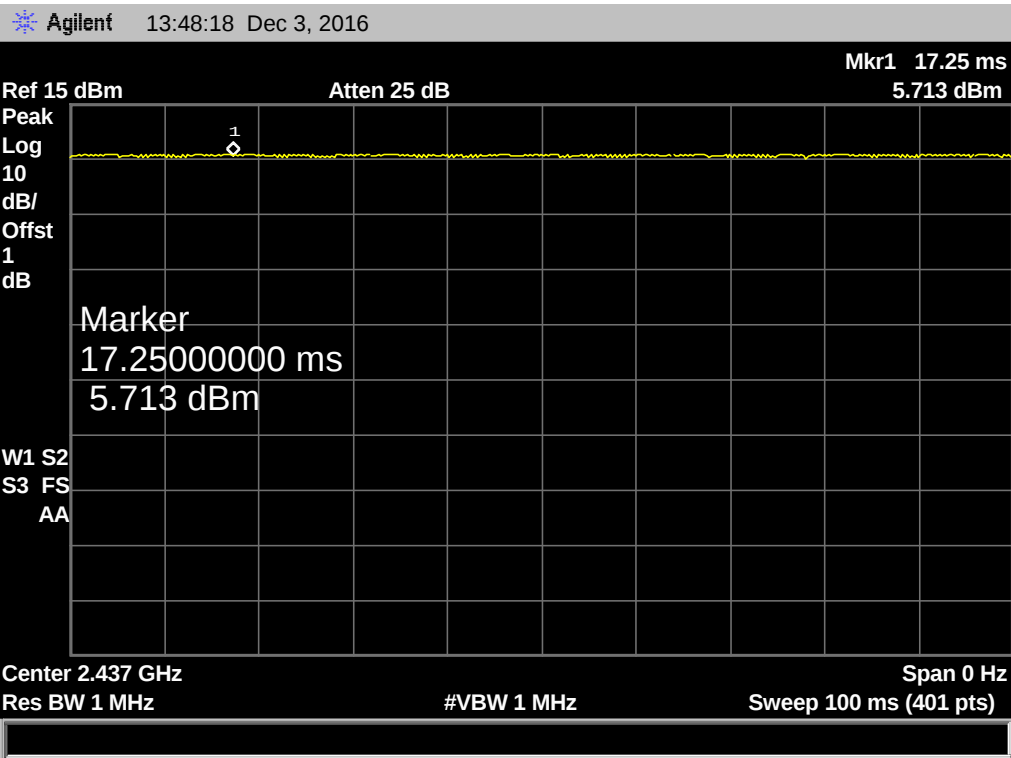
EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120/60Hz		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	16.76	30
	2437	16.57	
	2462	16.63	
802.11g	2412	16.68	
	2437	16.64	
	2462	16.59	
802.11n (HT20)	2412	16.06	
	2437	16.08	
	2462	16.03	
802.11n (HT40)	2422	15.75	
	2437	15.83	
	2452	15.69	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

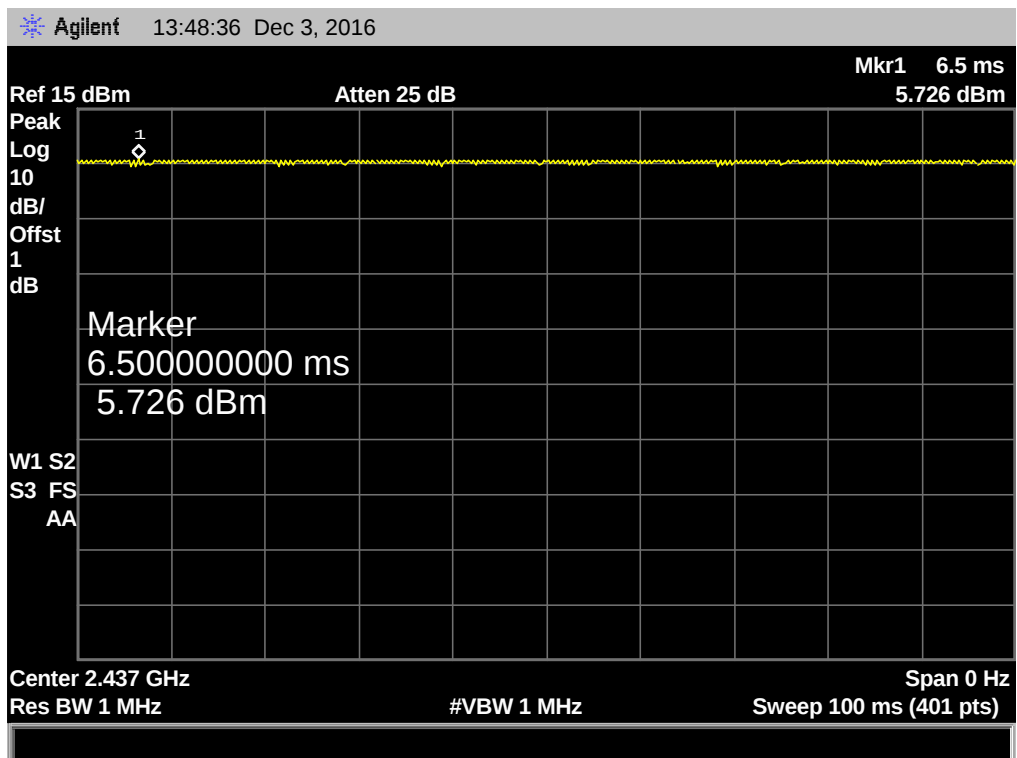
802.11 B Mode 2437 MHz



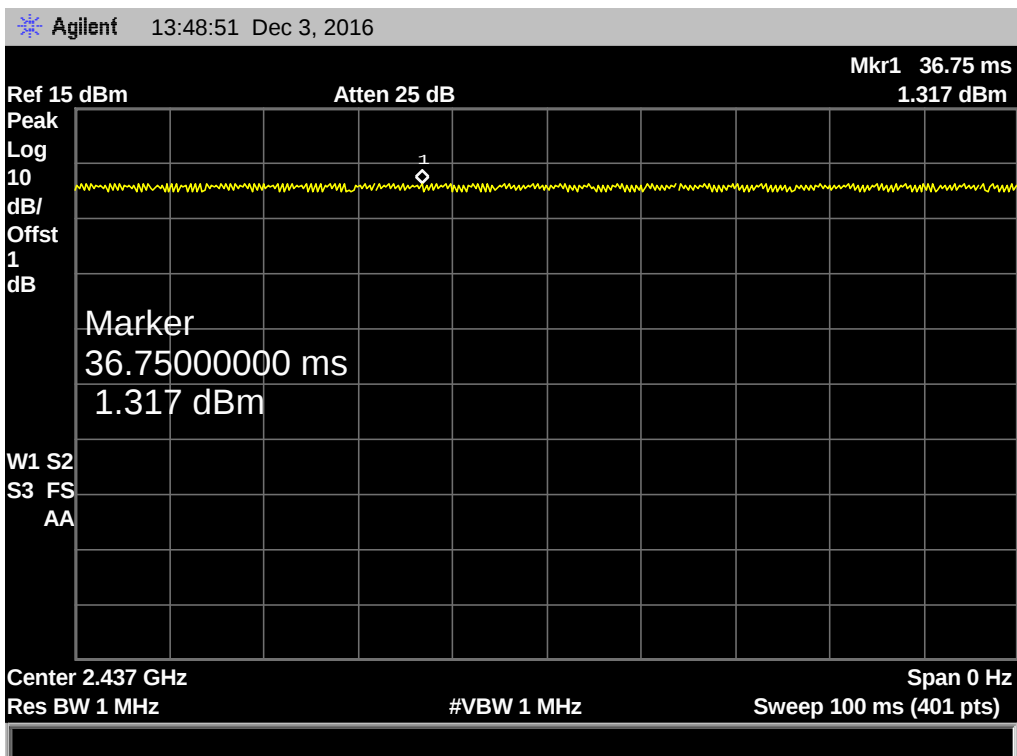
802.11 G Mode 2437 MHz



802.11 N(HT20) Mode 2437 MHz



802.11 N(HT40) Mode 2437 MHz



9. Power Spectral Density Test

9.1 Test Standard and Limit

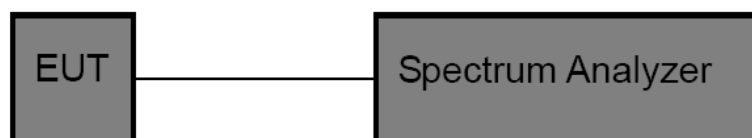
9.1.1 Test Standard

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

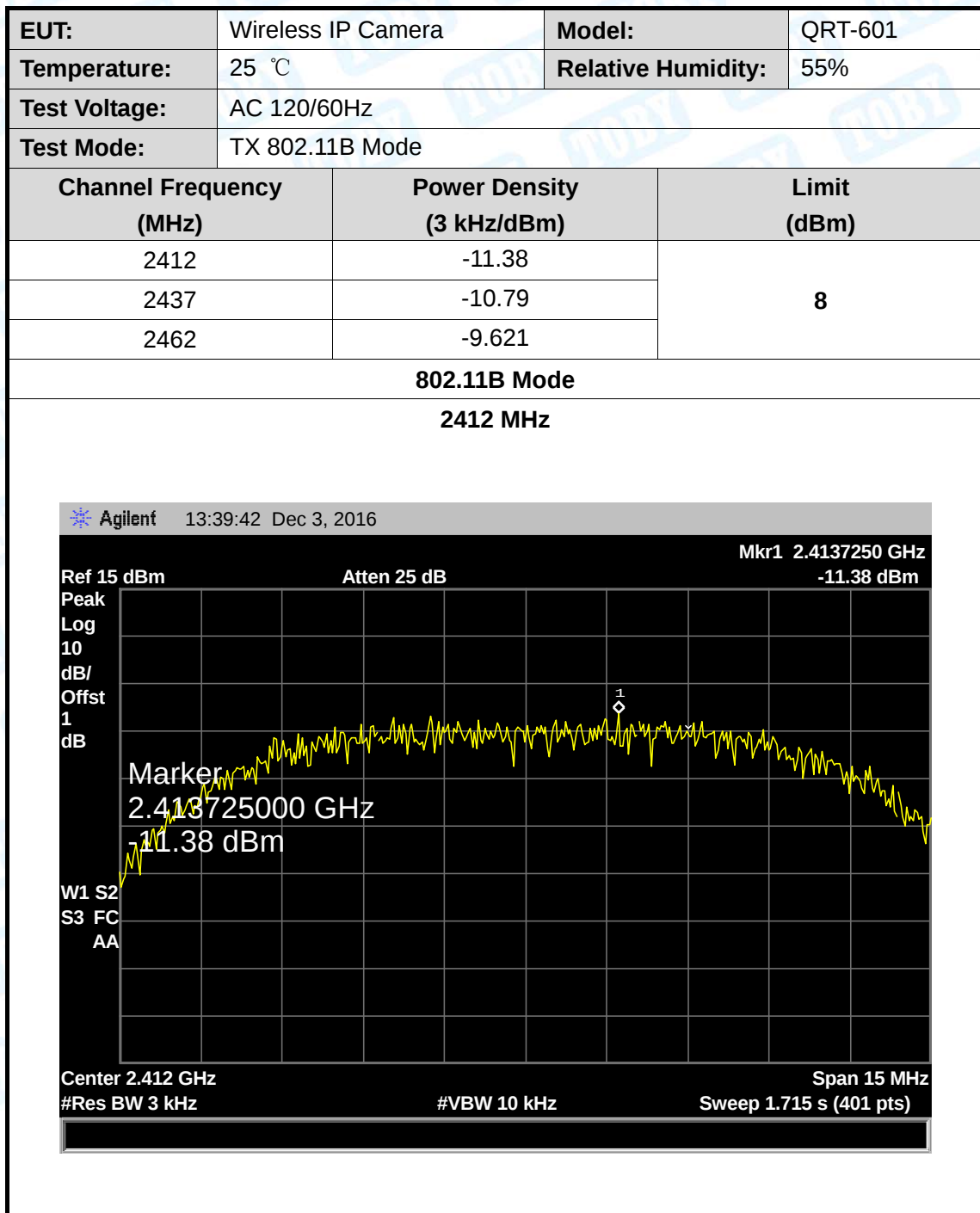
The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v03r05.

- (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

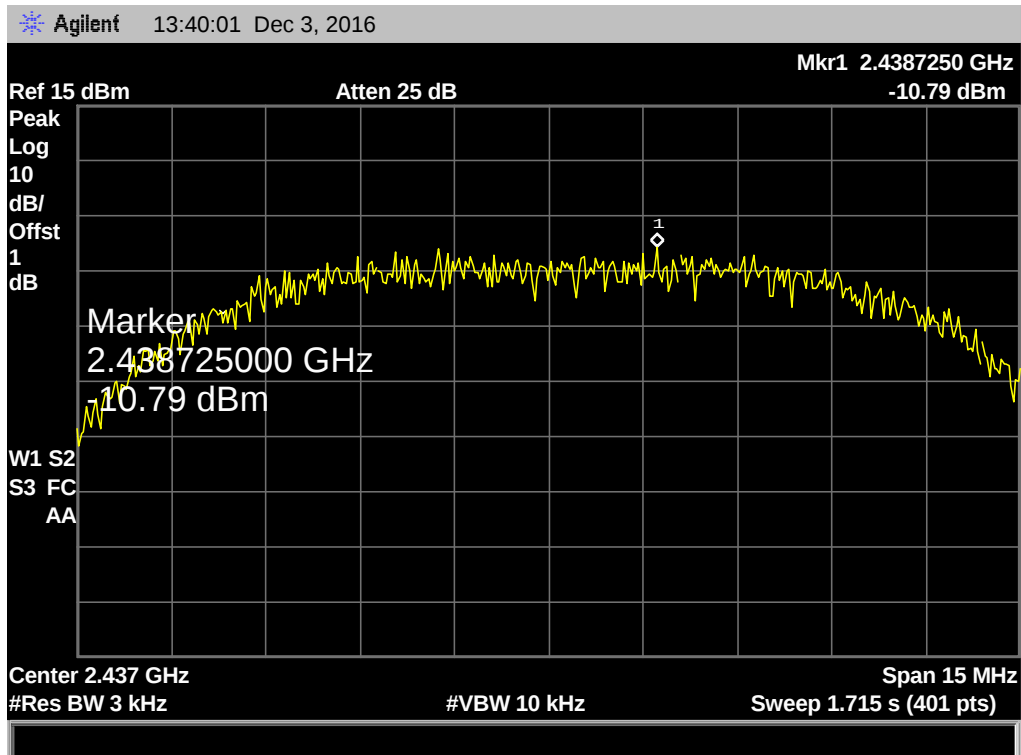
The EUT was set to continuously transmitting in each mode and low, Digital photo framesdle and high channel for the test.

9.5 Test Data



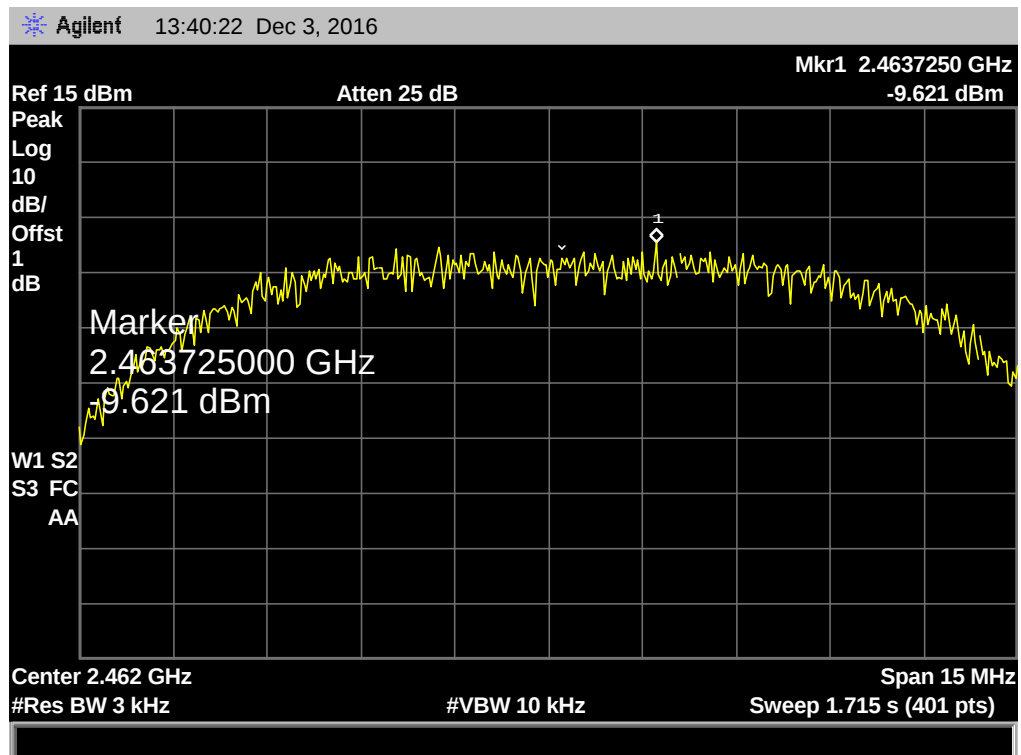
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11G Mode		
Channel Frequency (MHz)		Power Density (3 kHz/dBm)	Limit (dBm)
2412		-15.93	8
2437		-15.27	
2462		-14.51	
802.11G Mode			
2412 MHz			

Agilent13:41:14Dec 3, 2016

Ref 15 dBmAtten 25 dB

Mkr1 2.41978 GHz-15.93 dBm

Peak Log 10 dB/Offst 1 dB

Marker 2.419777500 GHz-15.93 dBm

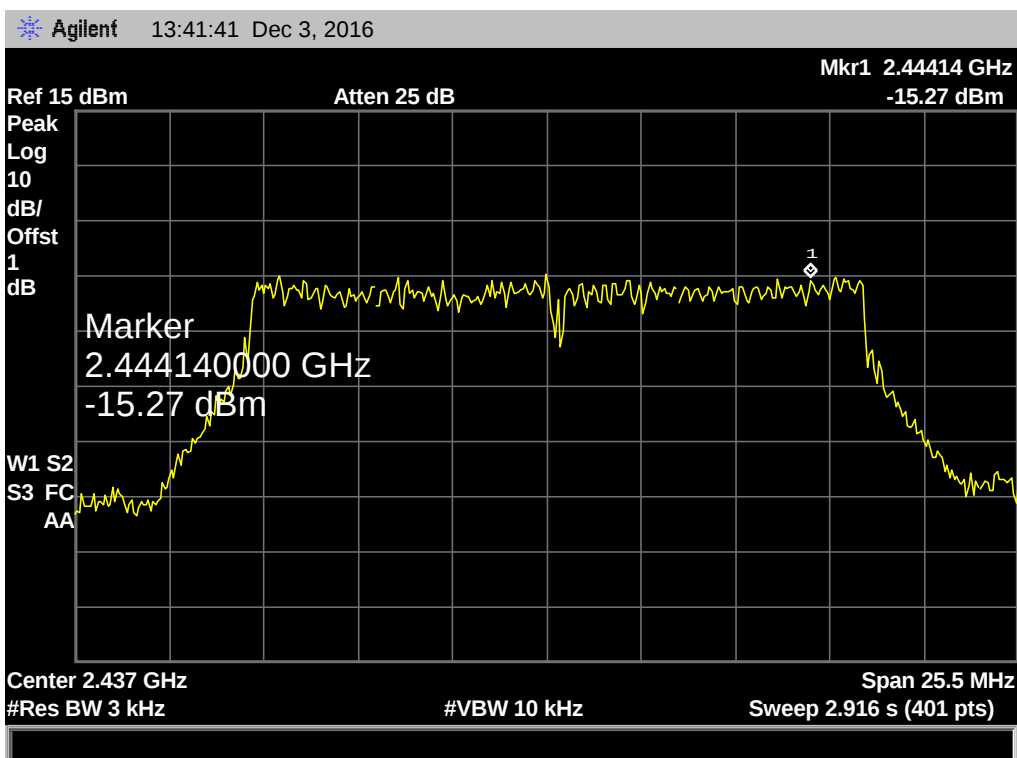
W1 S2 S3 FC AA

Center 2.412 GHzSpan 25.5 MHz

#Res BW 3 kHz#VBW 10 kHzSweep 2.916 s (401 pts)

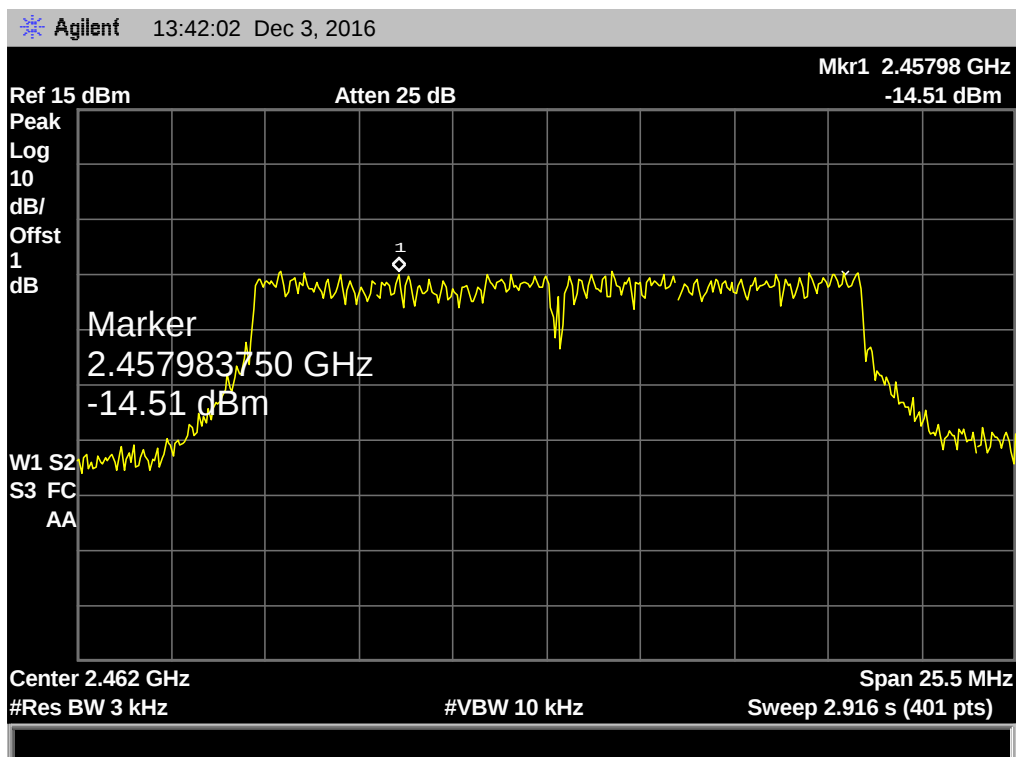
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



EUT:	Wireless IP Camera	Model:	QRT-601
Temperature:	25 °C	Temperature:	25 °C
Test Voltage:	AC 120/60Hz		
Test Mode:	TX 802.11N(HT20) Mode		
Channel Frequency (MHz)	Power Density (3 kHz/dBm)	Limit (dBm)	
2412	-16.07	8	
2437	-15.82		
2462	-15.00		
802.11N(HT20) Mode			
2412 MHz			

Agilent13:42:30Dec 3, 2016

Ref 15 dBm

Atten 25 dB

Mkr1 2.4098400 GHz
-16.07 dBm

Peak

Log

10

dB/

Offst

1

dB

Marker

2.409840000 GHz

-16.07 dBm

W1 S2

S3 FC

AA

Center 2.412 GHz

#Res BW 3 kHz

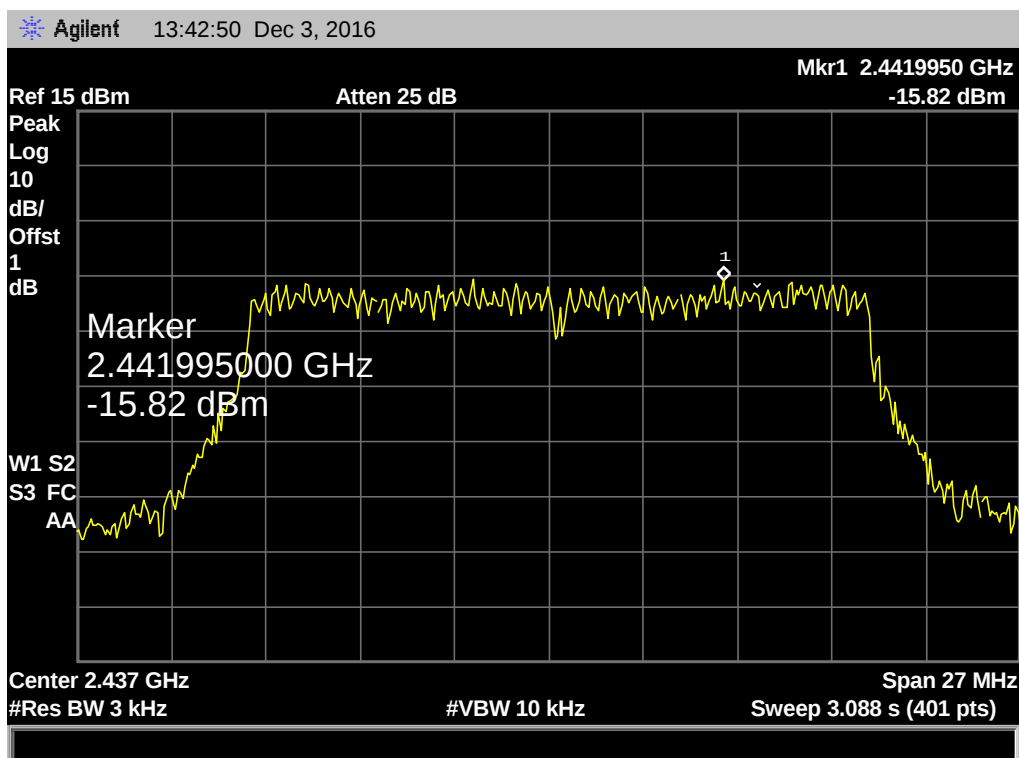
#VBW 10 kHz

Span 27 MHz

Sweep 3.088 s (401 pts)

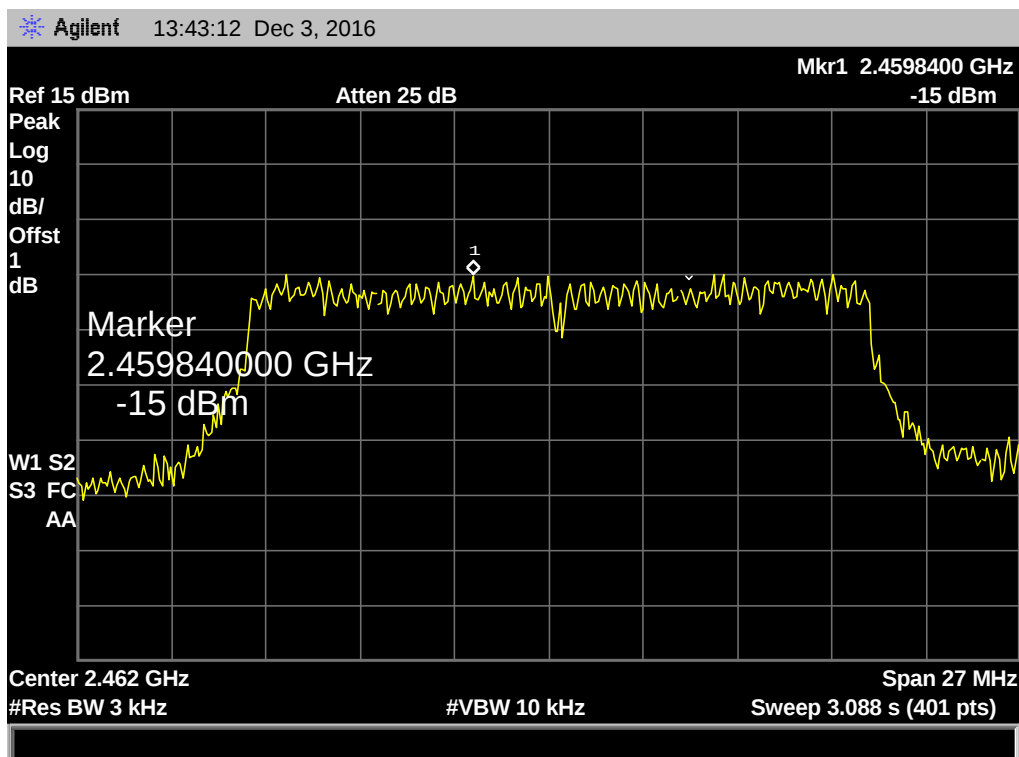
802.11N(HT20) Mode

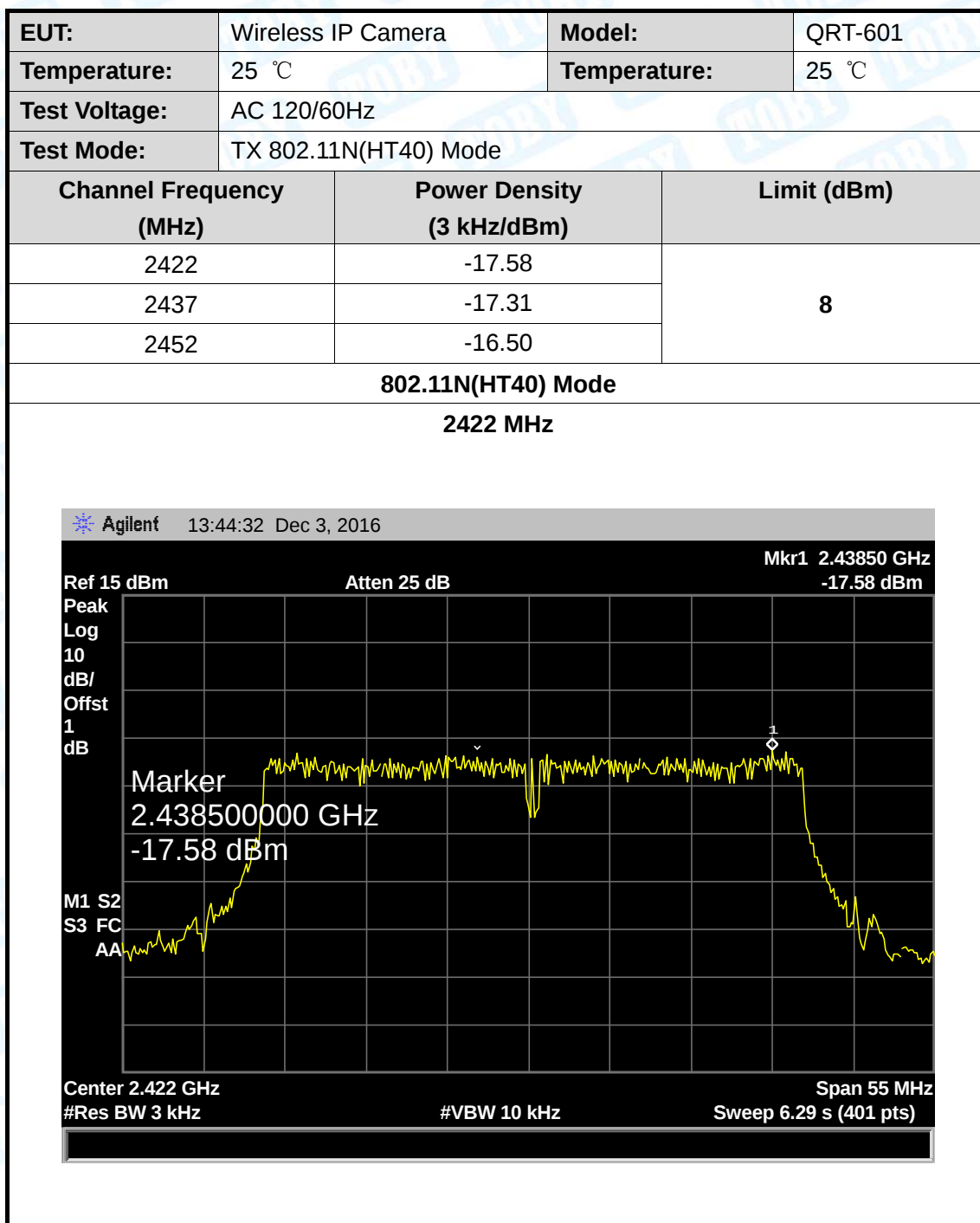
2437 MHz



802.11N(HT20) Mode

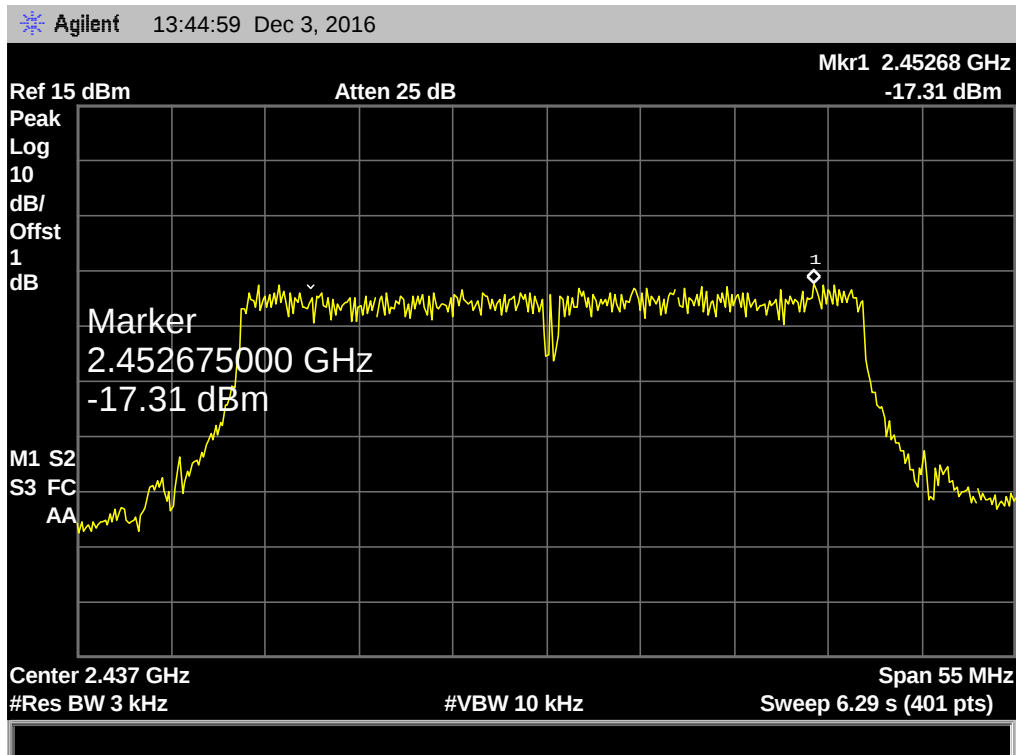
2462 MHz





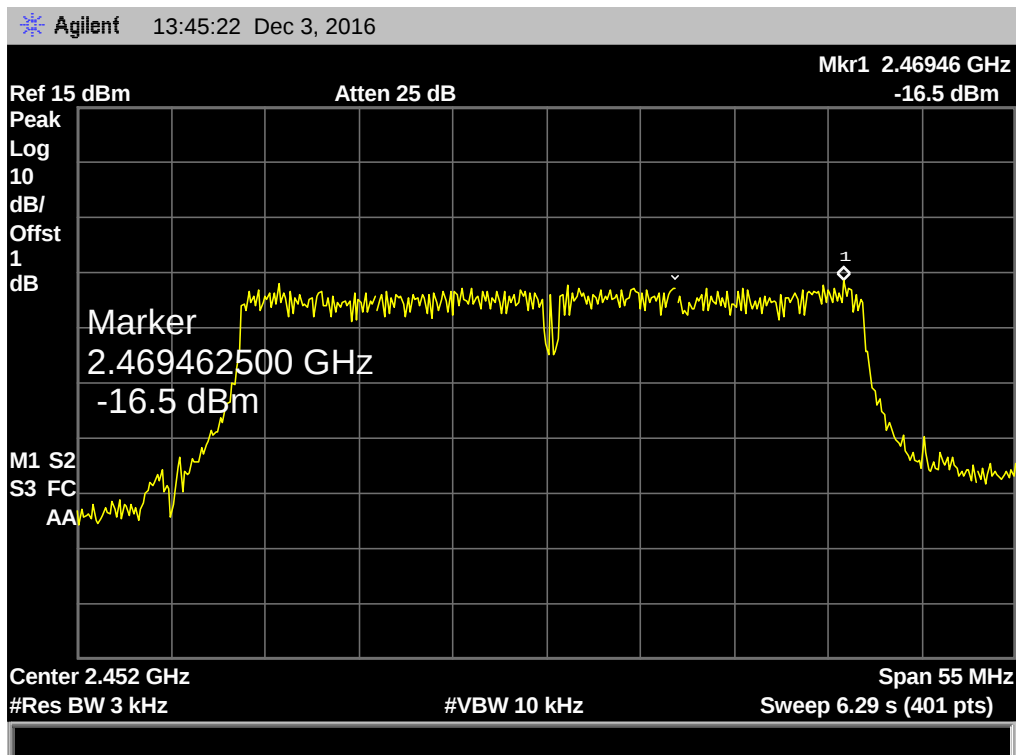
802.11N(HT40) Mode

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 3.23 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

Result

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

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

-----END OF REPORT-----