FCC PART 15C TEST REPORT FOR CERTIFICATION
On Behalf of

Lorex Technology Inc.

2.4G wireless camera product

Model Number: LWU3720-C

FCC ID: UCZ-LWU3720

Prepared for : Lorex Technology Inc.
250 Royal Crest Court Markham, L3R 3S1 Ontario Canada

Prepared By : EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town, DongGuan City,
GuangDong, China.

Tel: 86-769-83081888-808

Report Number: ESTE-R1606012
Date of Test : May 24~ Jun 20, 2016
Date of Report : Jun 25, 2016

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Description Page

Test Report Verification

Applicant: **Address:**	Lorex Technology Inc. 250 Royal Crest Court Markham, L3R 3S1 Ontario Canada
Manufacturer **Address:**	OPCOM O.E(DONG GUAN)INC. Gu Cun Industry Estate Dajing Countryside Committee Houjie Town,Donggun City Guangdong,China 523958
E.U.T:	2.4G wireless camera product
Model Number:	LWU3720-C
Additional Model:	---
Power Supply:	DC 12V From Adapter Input AC 100-240V; 50V/60Hz
Test Voltage:	DC 12V From Adapter Input AC 100-240V; 50V/60Hz
Trade Name:	--- Serial No.: ------
Date of Receipt:	May 24, 2016 Date of Test: May 24~ Jun 20,2016
Test Specification:	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013
Test Result:	The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Jun 20, 2016

Prepared by:	Tested by:	Approved by:
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager

Other Aspects:

None.

Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	2.4G wireless camera product
Model Number	:	LWU3720-C
Modulation	:	DSSS
Operation Frequency	:	2408 ~ 2468 MHz
Number of channel	:	16Channels
Antenna and Gain	:	PCB Antenna with 3dBi gain (Max)

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: 558074 D01 DTS Meas Guidance v03r05		

2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA
Registration No.: L5288
Date of registration: December 07, 2015

Certificated by FCC, USA
Registration No.: 989591
Date of registration: November 20, 2013

Certificated by Industry Canada
Registration No.: 9405A-1
Date of registration: December 30, 2015

Certificated by VCCI, Japan
Registration No.: R-3663 & C-4103
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany
Registration No.: UA 50195514 0001
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen
Registration No.: SCN1017
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO
Registration No.: 2011-RTL-L1-18
Date of registration: April 28, 2011

Certificated by Siemic, Inc.
Registration No.: SLCN021
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong
Registration No.: 175193
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

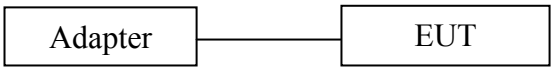
2.3. Assistant equipment used for test

2.3.1. Adapter

Model	TEK006-1200500UKC
Input	120V/240V;50/60Hz 0.3A MAX
Ouput	12V/0.5A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5)meter high above ground.EUT was be set into Wifi test mode by software before test.



(EUT: 2.4G wireless camera product)

2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower channel	Center channel	Upper channel
Transmitting	2408MHz	2440MHz	2468MHz
Receiving	2408MHz	2440MHz	2468MHz

2.6. Channel List for wifi

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2408	6	2428	11	2448
2	2412	7	2432	12	2452
3	2416	8	2436	13	2456
4	2420	9	2440	14	2460
5	2424	10	2444	15	2464
/	/	/	/	16	2468

2.7. Test Equipment

2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,15	1 Year

2.7.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year

2.7.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June,28,15	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,15	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June,28,15	1 Year

3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

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

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.3 Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

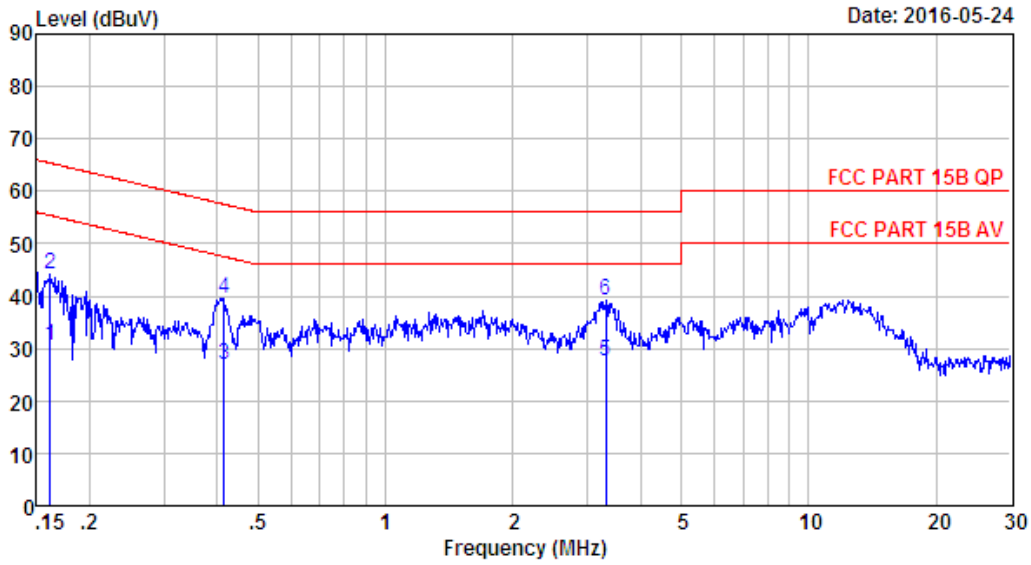
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Result

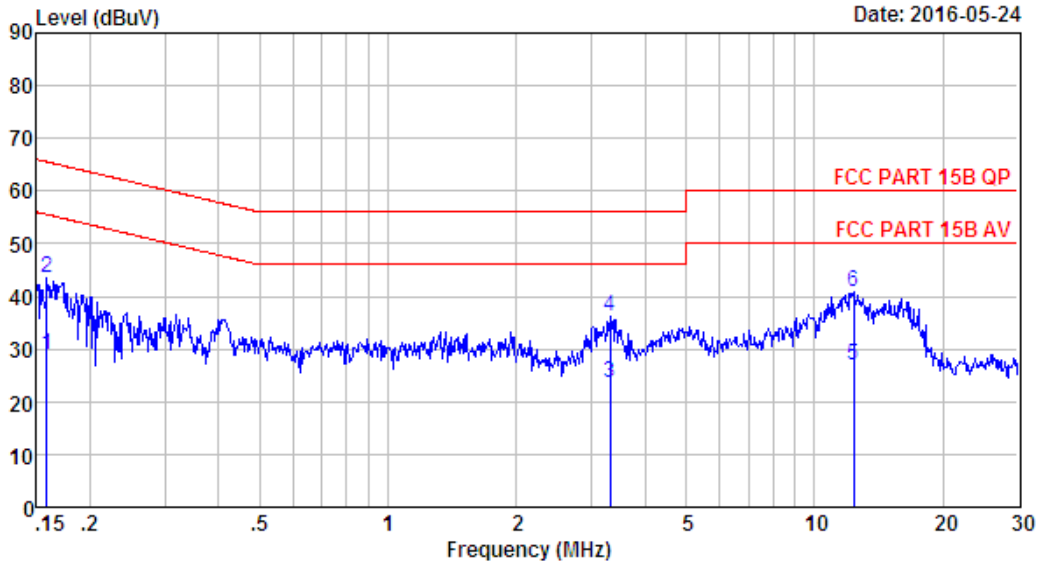
PASS. **(**All emissions not reported below are too low against the prescribed limits.)

3.5. Test data



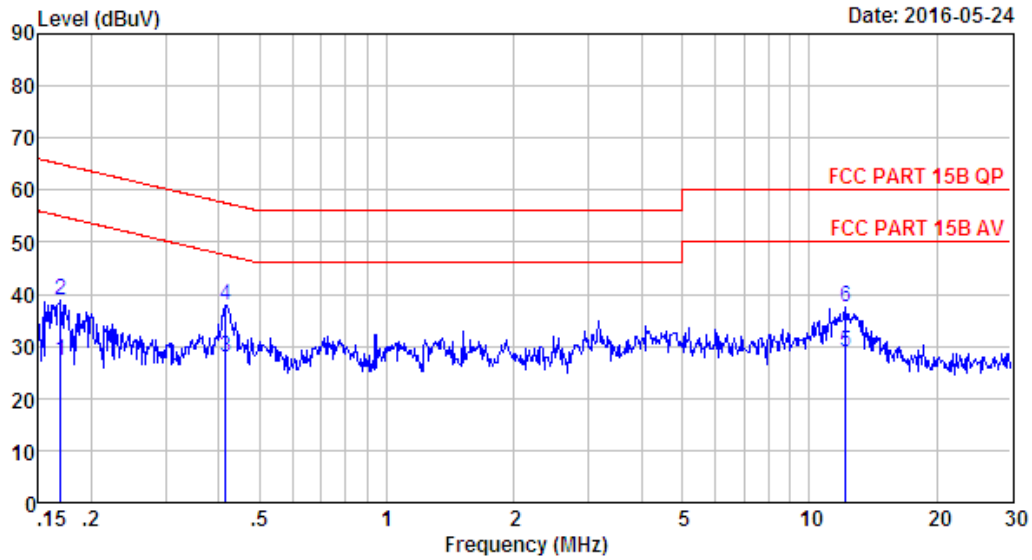
Site no : 844 Shield Room Data no. : 83
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.162	9.61	9.81	11.18	30.60	55.38	24.78	Average
2	0.162	9.61	9.81	24.70	44.12	65.38	21.26	QP
3	0.415	9.61	9.81	7.48	26.90	47.55	20.65	Average
4	0.415	9.61	9.81	20.00	39.42	57.55	18.13	QP
5	3.310	9.63	9.84	8.13	27.60	46.00	18.40	Average
6	3.310	9.63	9.84	19.68	39.15	56.00	16.85	QP



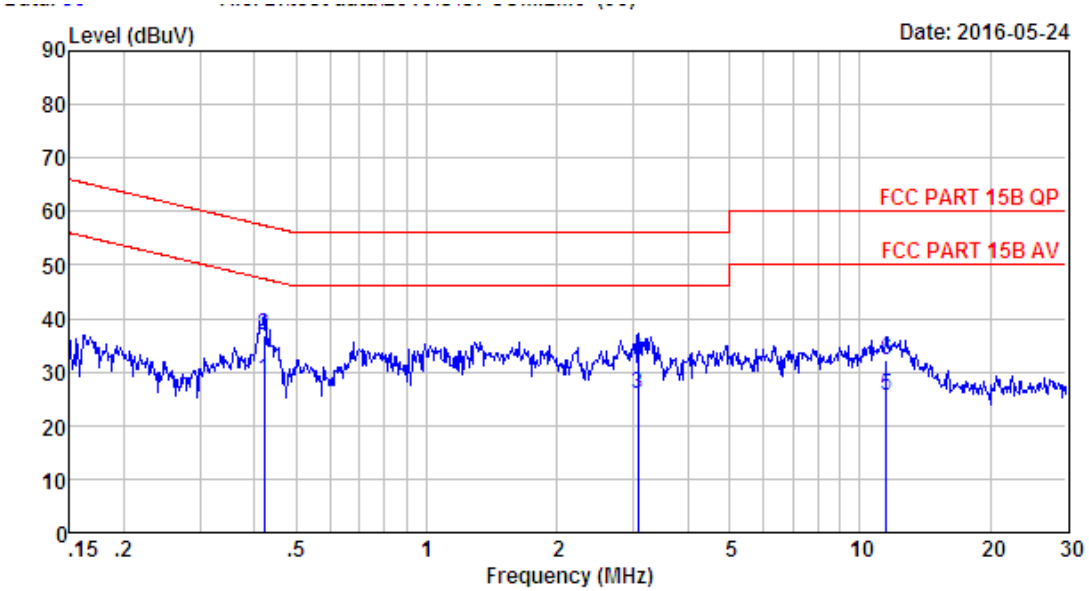
Site no : 844 Shield Room Data no. : 84
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.158	9.48	9.81	9.71	29.00	55.56	26.56	Average
2	0.158	9.48	9.81	24.31	43.60	65.56	21.96	QP
3	3.310	9.64	9.84	4.12	23.60	46.00	22.40	Average
4	3.310	9.64	9.84	16.82	36.30	56.00	19.70	QP
5	12.384	9.72	9.89	7.39	27.00	50.00	23.00	Average
6	12.384	9.72	9.89	21.10	40.71	60.00	19.29	QP



Site no : 844 Shield Room Data no. : 85
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL
Limit : FCC PART 15B QP
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 240V/50Hz
M/N : LWU3720-C
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.169	9.52	9.81	8.00	27.33	54.99	27.66	Average
2	0.169	9.52	9.81	19.42	38.75	64.99	26.24	QP
3	0.415	9.59	9.81	8.60	28.00	47.55	19.55	Average
4	0.415	9.59	9.81	18.53	37.93	57.55	19.62	QP
5	12.188	9.72	9.90	9.30	28.92	50.00	21.08	Average
6	12.188	9.72	9.90	17.87	37.49	60.00	22.51	QP



Site no : 844 Shield Room Data no. : 86
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE
Limit : FCC PART 15B QP
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 240V/50Hz
M/N : LWU3720-C
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.421	9.61	9.81	9.00	28.42	47.42	19.00	Average
2	0.421	9.61	9.81	17.50	36.92	57.42	20.50	QP
3	3.074	9.63	9.85	6.50	25.98	46.00	20.02	Average
4	3.074	9.63	9.85	12.63	32.11	56.00	23.89	QP
5	11.498	9.67	9.89	6.00	25.56	50.00	24.44	Average
6	11.498	9.67	9.89	12.82	32.38	60.00	27.62	QP

4 RADIATED EMISSION TEST

4.1 Limit

4.1.1 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark：(1) Emission level dBμV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

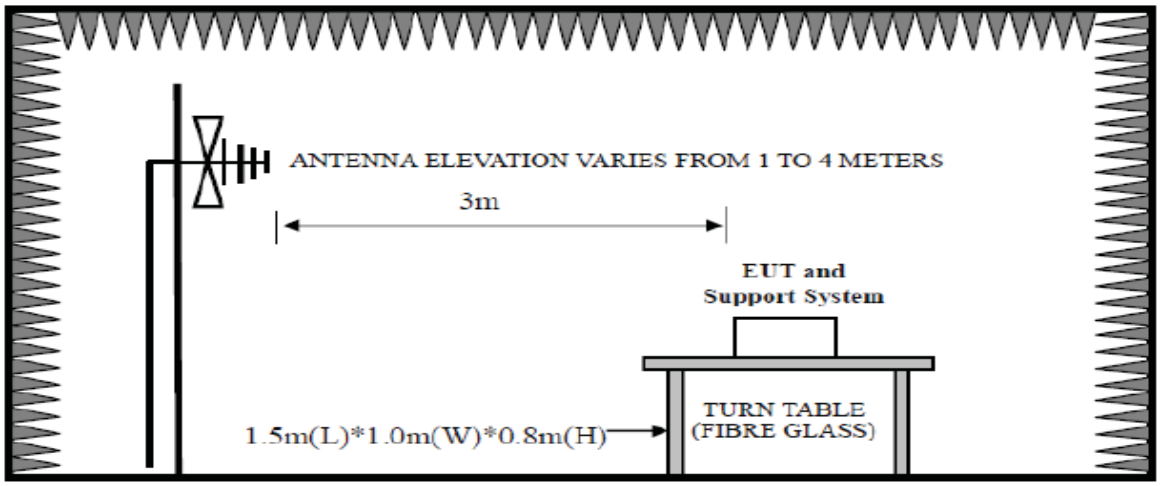
4.1.2 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

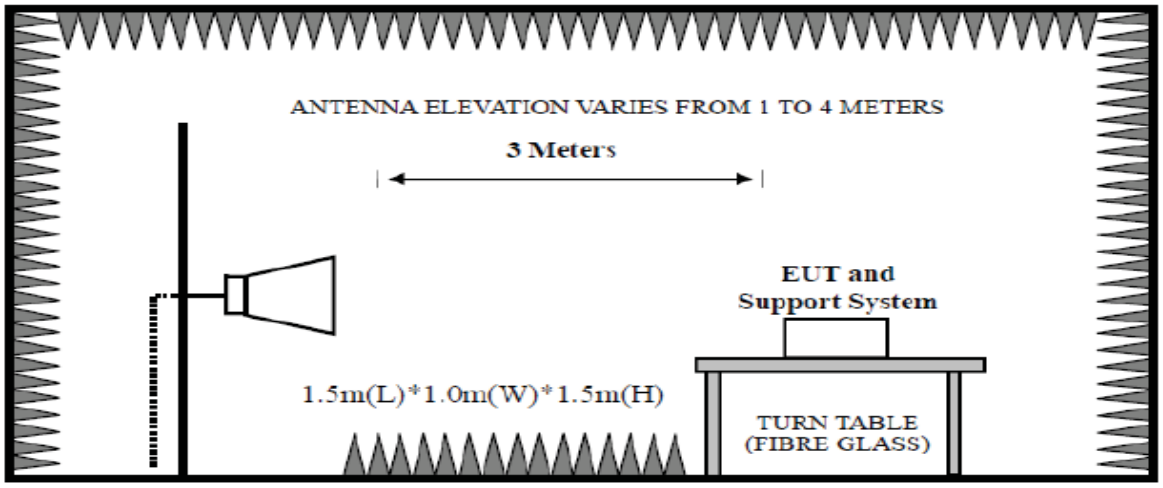
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

4.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT and its simulators are placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,
PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.2. Test Result

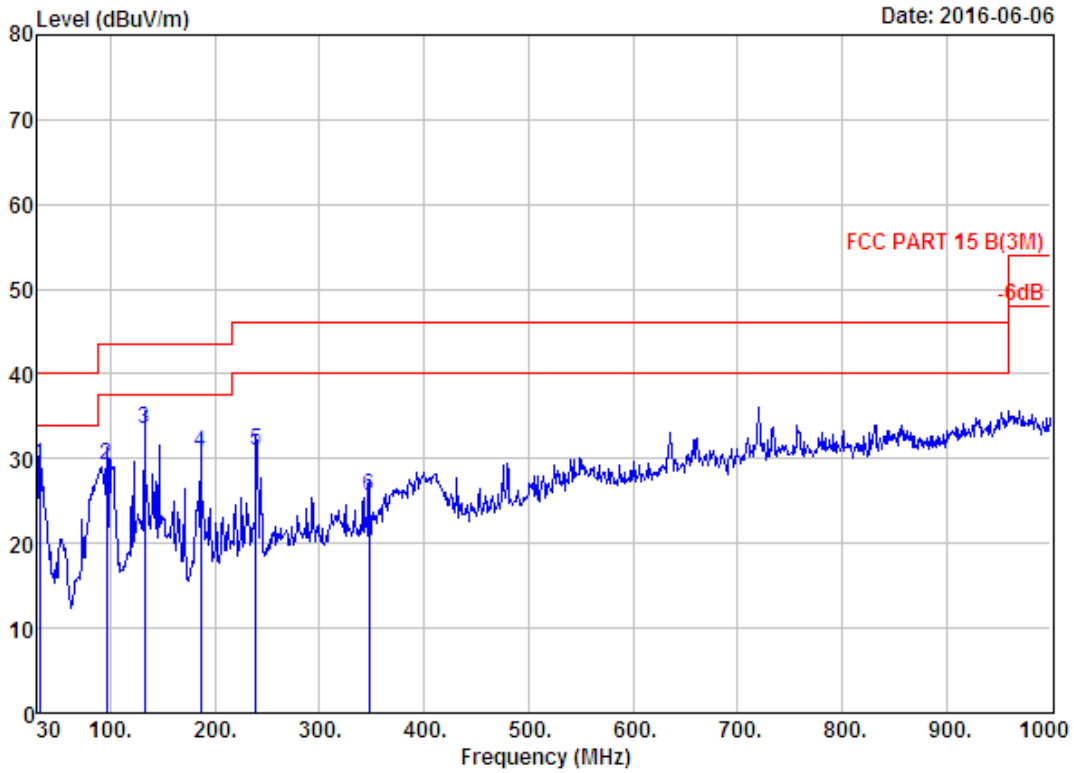
PASS.

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2、The frequency 2408MHz 、2440MHz、2468MHz is fundamental frequency which no limit, the limit on plots is automatically
generated by the software, it's not fundamental limit, we can't remove it.

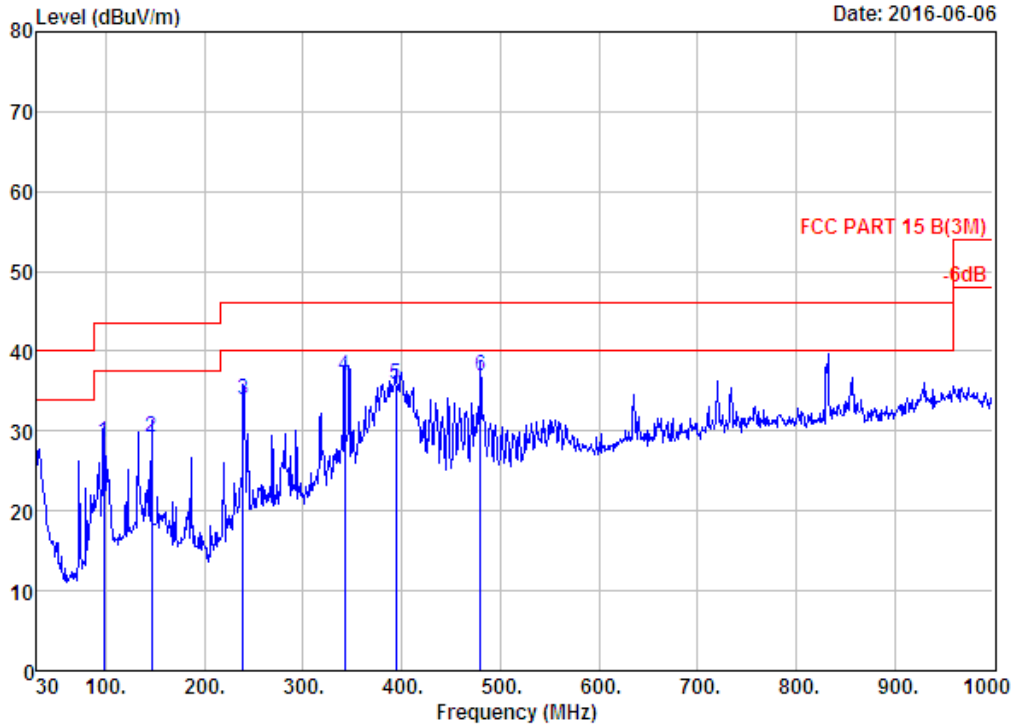
4.3. Test Data

30-1000 MHz



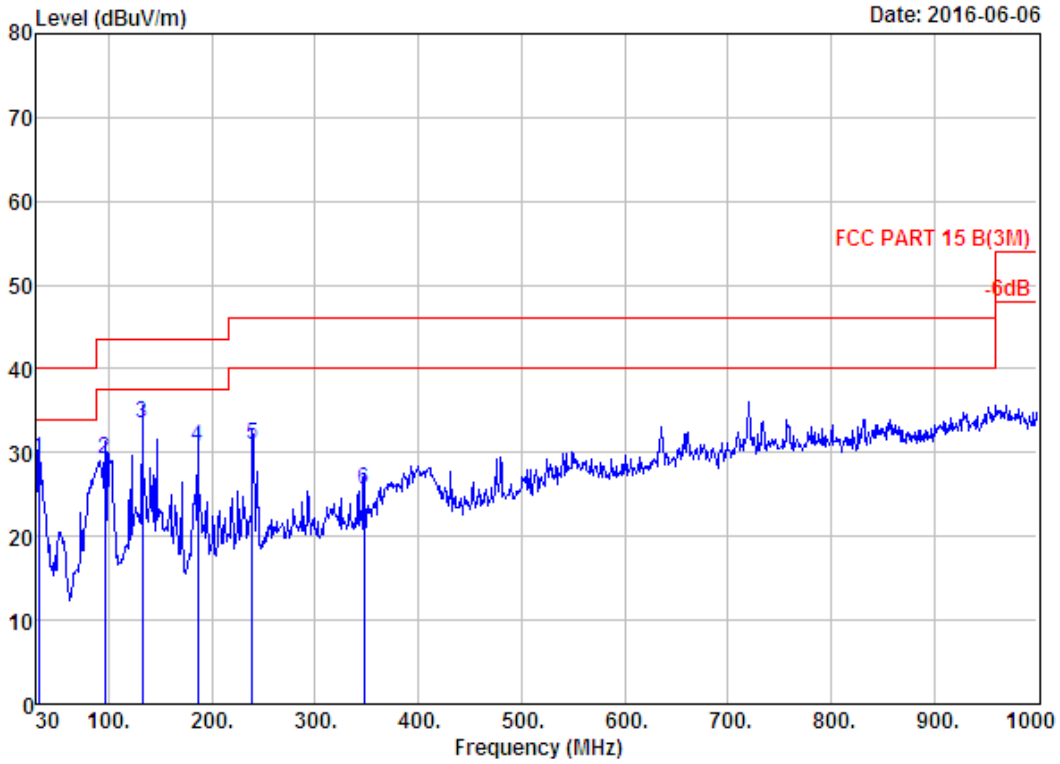
Site no. : 966 1# chamber Data no. : 333
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	17.52	0.95	10.80	29.27	40.00	10.73	QP
2	95.96	9.11	1.77	18.42	29.30	43.50	14.20	QP
3	132.82	11.27	1.53	20.77	33.57	43.50	9.93	QP
4	186.17	8.36	1.96	20.49	30.81	43.50	12.69	QP
5	239.52	10.25	2.13	18.55	30.93	46.00	15.07	QP
6	347.19	14.30	2.61	8.59	25.50	46.00	20.50	QP



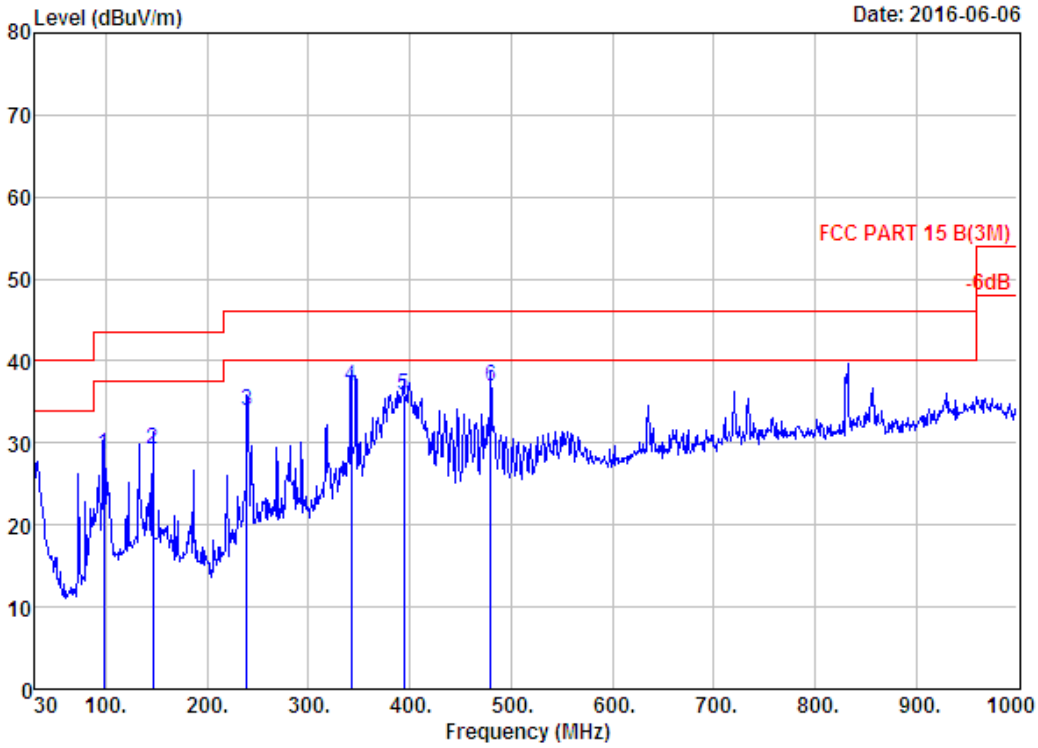
Site no. : 966 1# chamber Data no. : 334
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.90	9.31	1.70	17.49	28.50	43.50	15.00	QP
2	146.40	11.03	1.74	16.51	29.28	43.50	14.22	QP
3	239.52	10.25	2.13	21.57	33.95	46.00	12.05	QP
4	342.34	14.16	2.57	20.13	36.86	46.00	9.14	QP
5	393.75	15.62	2.72	17.42	35.76	46.00	10.24	QP
6	480.08	17.55	3.14	16.24	36.93	46.00	9.07	QP



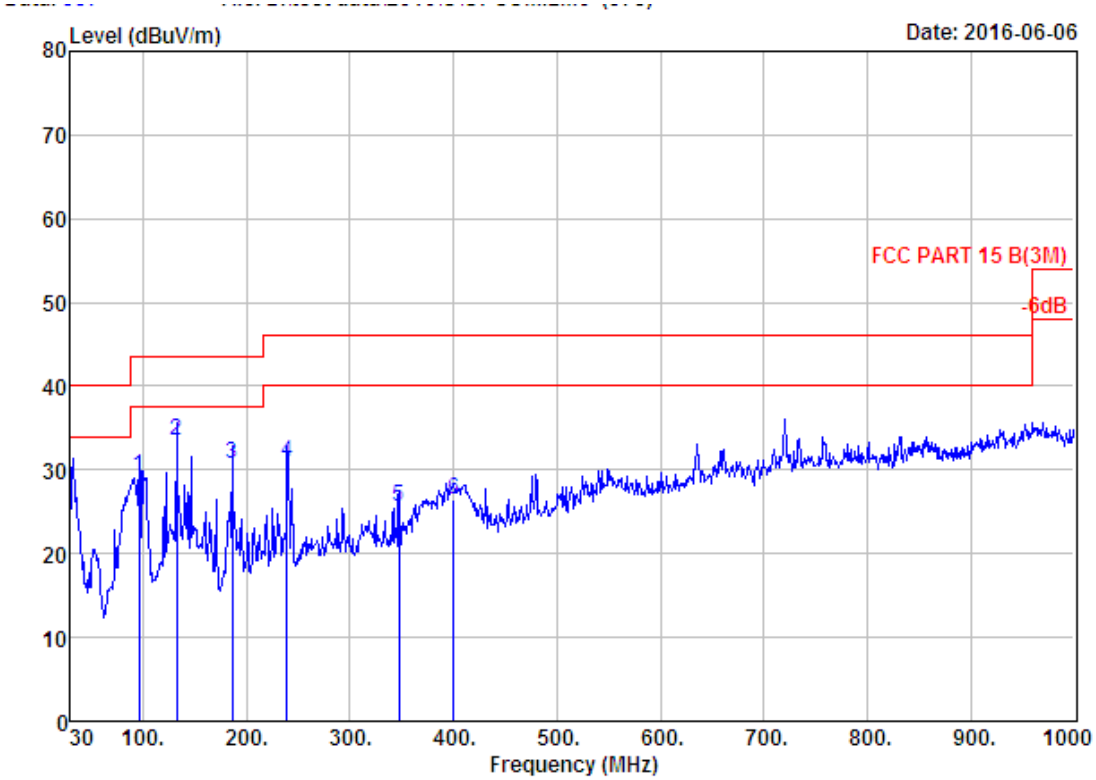
Site no. : 966 1# chamber Data no. : 335
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	17.52	0.95	10.80	29.27	40.00	10.73	QP
2	95.96	9.11	1.77	18.42	29.30	43.50	14.20	QP
3	132.82	11.27	1.53	20.77	33.57	43.50	9.93	QP
4	186.17	8.36	1.96	20.49	30.81	43.50	12.69	QP
5	239.52	10.25	2.13	18.55	30.93	46.00	15.07	QP
6	347.19	14.30	2.61	8.59	25.50	46.00	20.50	QP



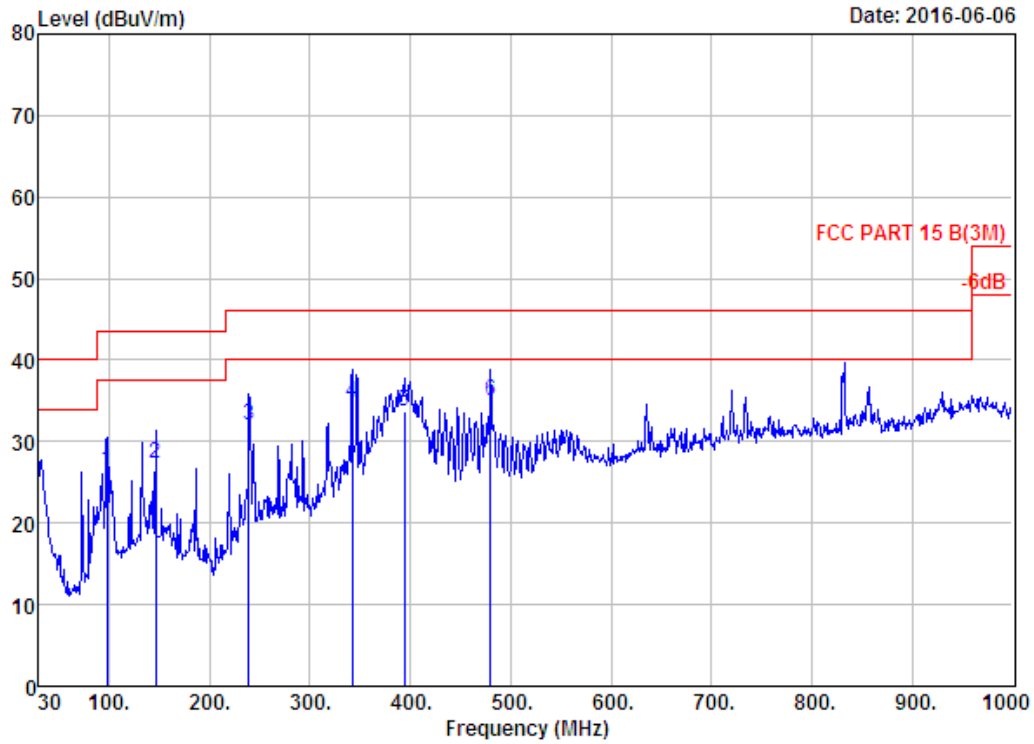
Site no. : 966 1# chamber Data no. : 336
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.90	9.31	1.70	17.49	28.50	43.50	15.00	QP
2	146.40	11.03	1.74	16.51	29.28	43.50	14.22	QP
3	239.52	10.25	2.13	21.57	33.95	46.00	12.05	QP
4	342.34	14.16	2.57	20.13	36.86	46.00	9.14	QP
5	393.75	15.62	2.72	17.42	35.76	46.00	10.24	QP
6	480.08	17.55	3.14	16.24	36.93	46.00	9.07	QP



Site no. : 966 1# chamber Data no. : 337
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

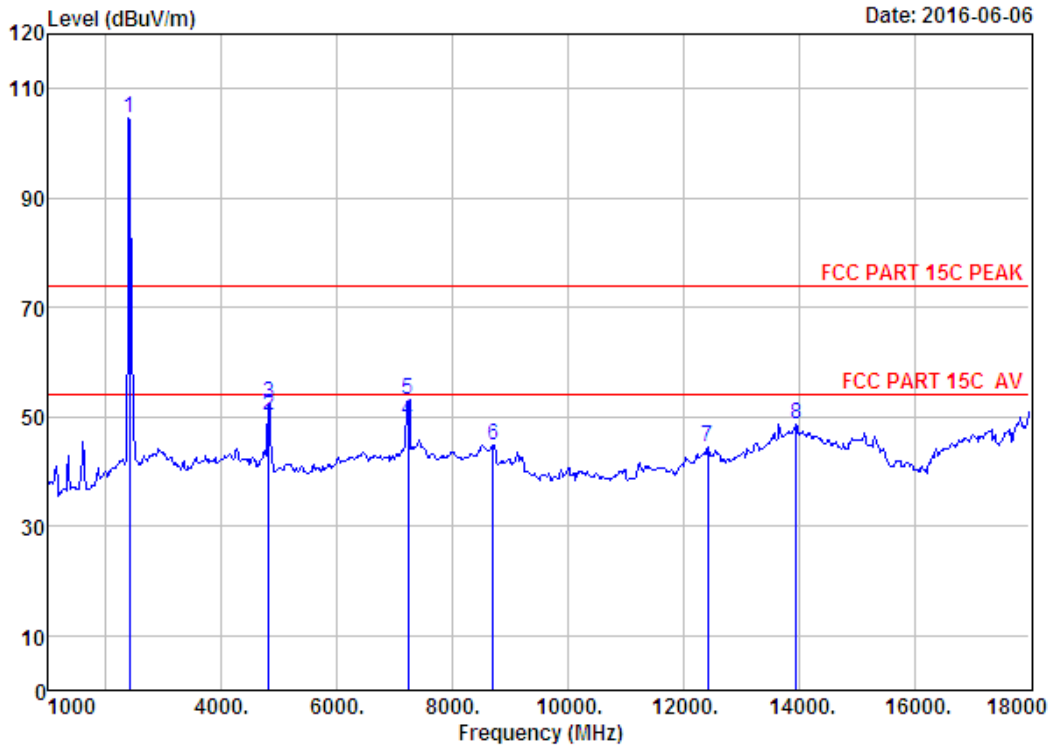
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	95.96	9.11	1.77	18.42	29.30	43.50	14.20	QP
2	132.82	11.27	1.53	20.77	33.57	43.50	9.93	QP
3	186.17	8.36	1.96	20.49	30.81	43.50	12.69	QP
4	239.52	10.25	2.13	18.55	30.93	46.00	15.07	QP
5	347.19	14.30	2.61	8.59	25.50	46.00	20.50	QP
6	400.54	15.94	2.51	7.94	26.39	46.00	19.61	QP



Site no. : 966 1# chamber Data no. : 338
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.90	9.31	1.70	15.49	26.50	43.50	17.00	QP
2	146.40	11.03	1.74	14.51	27.28	43.50	16.22	QP
3	239.52	10.25	2.13	19.57	31.95	46.00	14.05	QP
4	342.34	14.16	2.57	18.13	34.86	46.00	11.14	QP
5	393.75	15.62	2.72	15.42	33.76	46.00	12.24	QP
6	480.08	17.55	3.14	14.24	34.93	46.00	11.07	QP

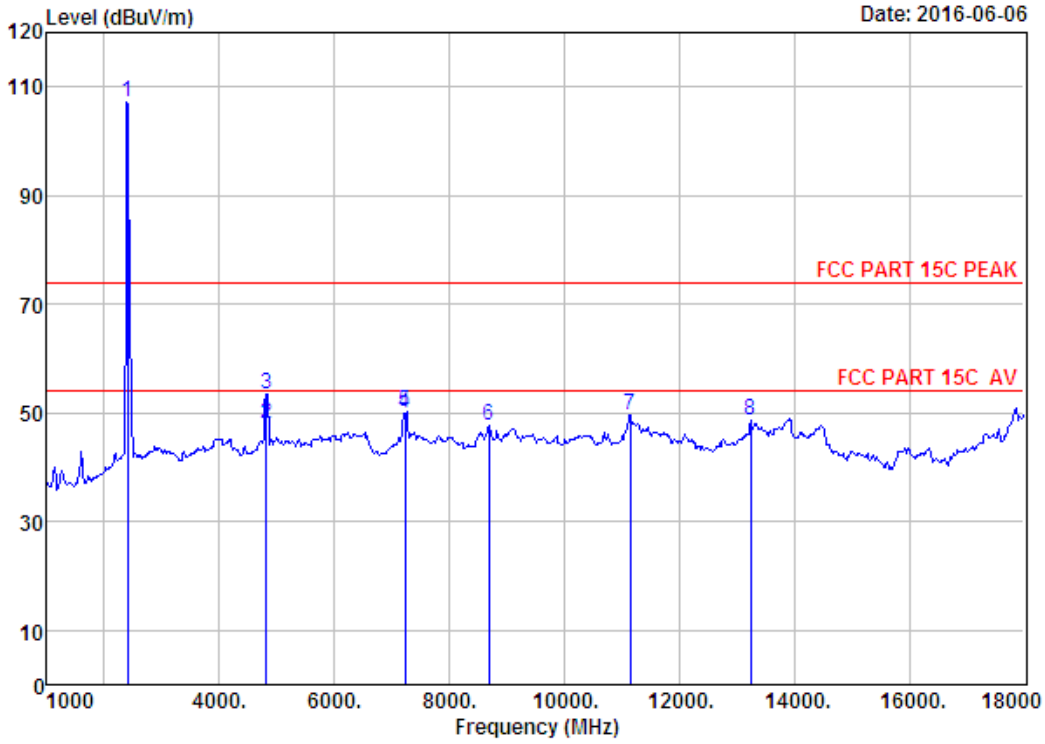
1000-18000 MHz



Site no. : 966 1# chamber Data no. : 319
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2408.00	27.61	6.64	34.64	104.99	104.60	74.00	-30.60	Peak
2	4816.00	31.25	11.77	35.66	42.74	50.10	54.00	3.90	Average
3	4816.00	31.25	11.77	35.66	45.19	52.55	74.00	21.45	Peak
4	7224.00	36.52	11.54	33.99	35.23	49.30	54.00	4.70	Average
5	7224.00	36.52	11.54	33.99	39.16	53.23	74.00	20.77	Peak
6	8701.00	37.35	11.45	33.65	29.60	44.75	74.00	29.25	Peak
7	12424.00	38.74	10.97	33.42	28.18	44.47	74.00	29.53	Peak
8	13954.00	41.35	10.96	32.99	29.48	48.80	74.00	25.20	Peak

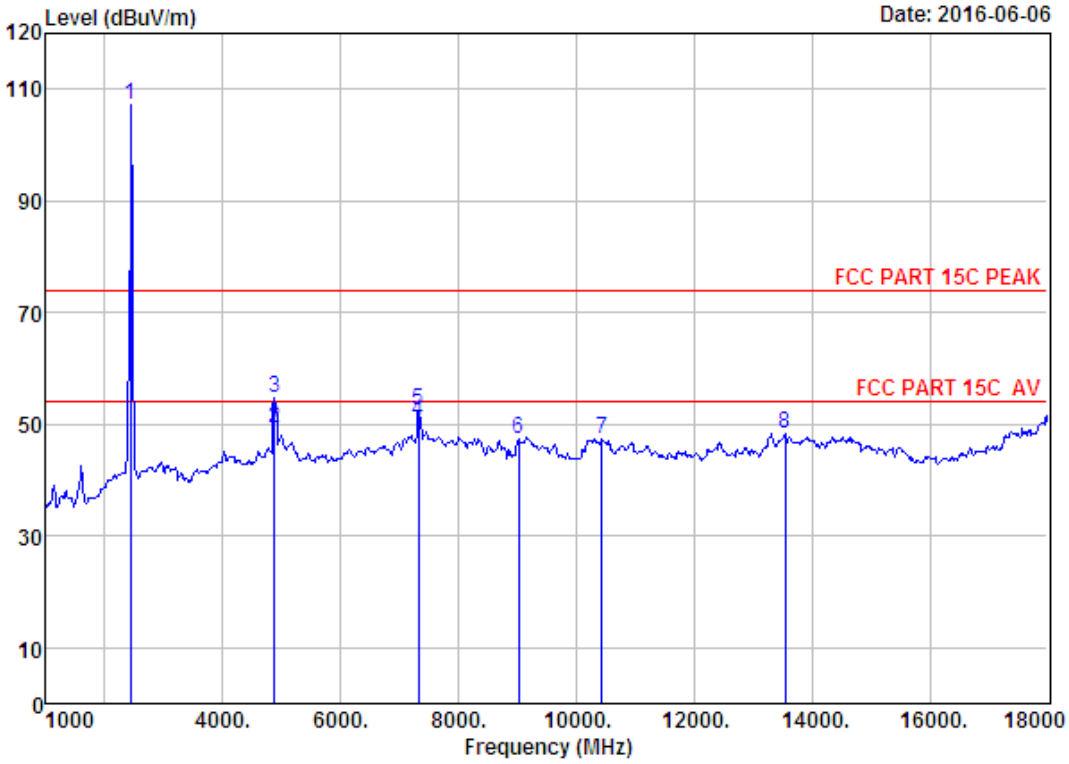
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 320
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2408.00	27.61	6.64	34.64	107.58	107.19	74.00	-33.19	Peak
2	4816.00	31.25	11.77	35.66	40.64	48.00	54.00	6.00	Average
3	4816.00	31.25	11.77	35.66	46.21	53.57	74.00	20.43	Peak
4	7224.00	36.52	11.54	33.99	35.73	49.80	54.00	4.20	Average
5	7224.00	36.52	11.54	33.99	36.08	50.15	74.00	23.85	Peak
6	8684.00	37.32	11.45	33.66	32.45	47.56	74.00	26.44	Peak
7	11149.00	39.42	11.18	33.38	32.46	49.68	74.00	24.32	Peak
8	13240.00	39.46	11.46	32.88	30.49	48.53	74.00	25.47	Peak

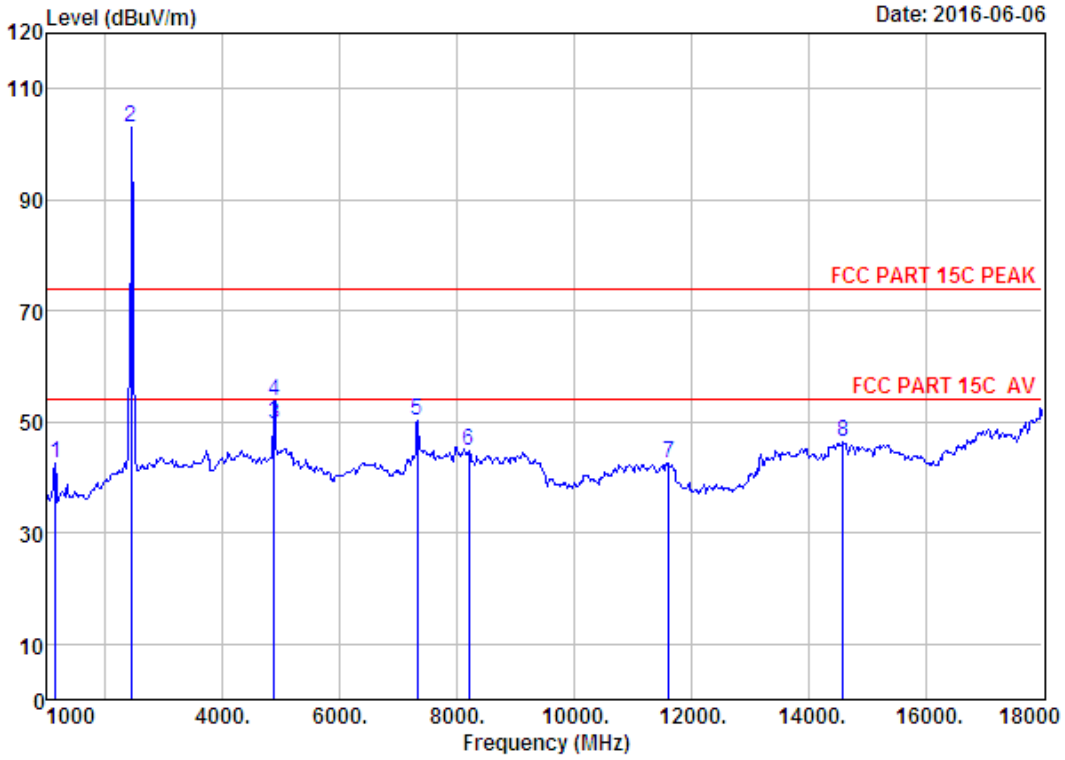
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 321
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.60	6.67	34.85	107.87	107.29	74.00	-33.29	Peak
2	4880.00	31.37	12.07	35.76	41.62	49.30	54.00	4.70	Average
3	4880.00	31.37	12.07	35.76	46.91	54.59	74.00	19.41	Peak
4	7320.00	36.55	11.57	34.14	36.62	50.60	54.00	3.40	Average
5	7320.00	36.55	11.57	34.14	38.37	52.35	74.00	21.65	Peak
6	9024.00	37.43	11.47	34.30	32.63	47.23	74.00	26.77	Peak
7	10435.00	38.86	11.35	34.52	31.63	47.32	74.00	26.68	Peak
8	13546.00	40.21	11.44	32.61	29.18	48.22	74.00	25.78	Peak

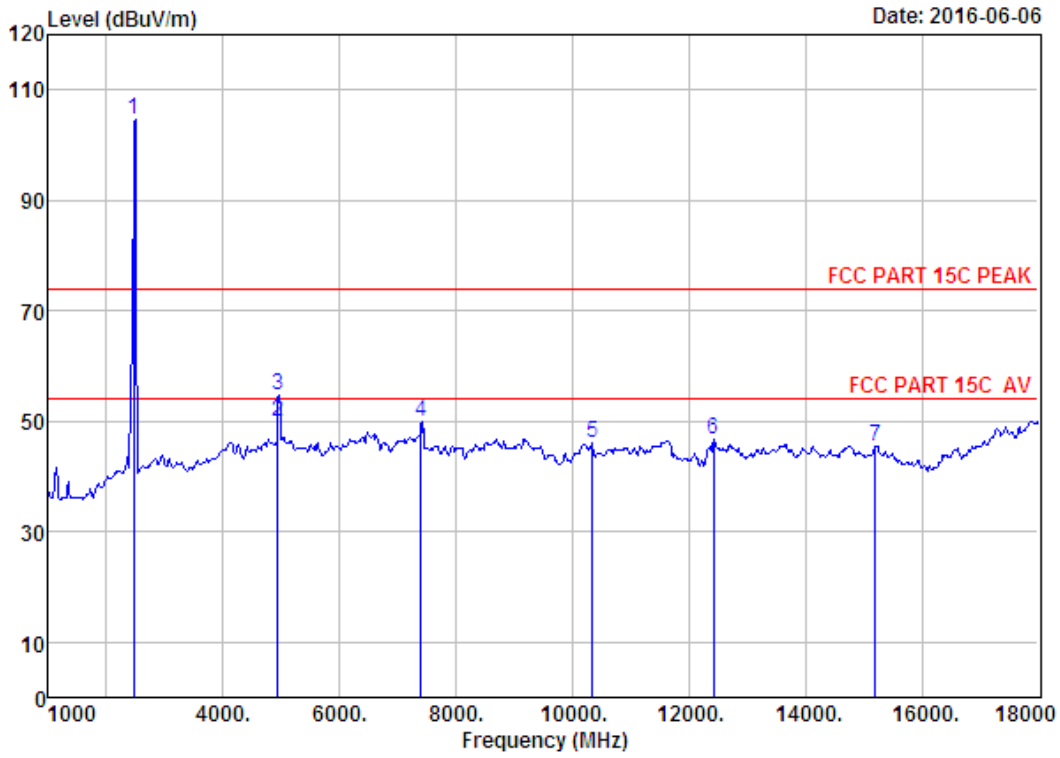
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 322
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1136.00	24.24	3.68	35.23	49.74	42.43	74.00	31.57	Peak
2	2440.00	27.60	6.67	34.85	103.48	102.90	74.00	-28.90	Peak
3	4880.00	31.37	12.07	35.76	41.92	49.60	54.00	4.40	Average
4	4880.00	31.37	12.07	35.76	46.16	53.84	74.00	20.16	Peak
5	7320.00	36.55	11.57	34.14	36.31	50.29	74.00	23.71	Peak
6	8208.00	36.66	11.42	34.98	31.59	44.69	74.00	29.31	Peak
7	11625.00	39.06	11.04	33.19	25.78	42.69	74.00	31.31	Peak
8	14600.00	41.59	10.92	33.80	27.53	46.24	74.00	27.76	Peak

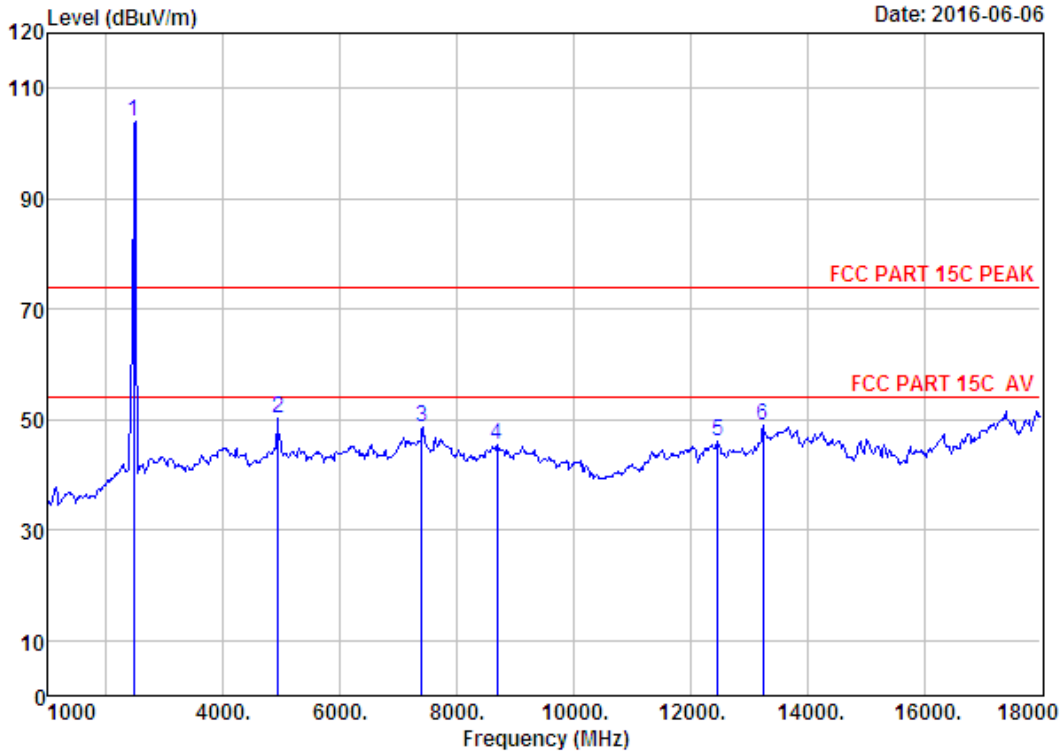
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 323
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.00	27.58	6.69	34.98	105.47	104.76	74.00	-30.76	Peak
2	4936.00	31.45	12.37	35.91	42.09	50.00	54.00	4.00	Average
3	4936.00	31.45	12.37	35.91	46.89	54.80	74.00	19.20	Peak
4	7404.00	36.58	11.60	34.23	36.09	50.04	74.00	23.96	Peak
5	10350.00	38.71	11.39	34.53	30.40	45.97	74.00	28.03	Peak
6	12424.00	38.74	10.97	33.42	30.59	46.88	74.00	27.12	Peak
7	15195.00	39.30	10.95	33.83	29.05	45.47	74.00	28.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

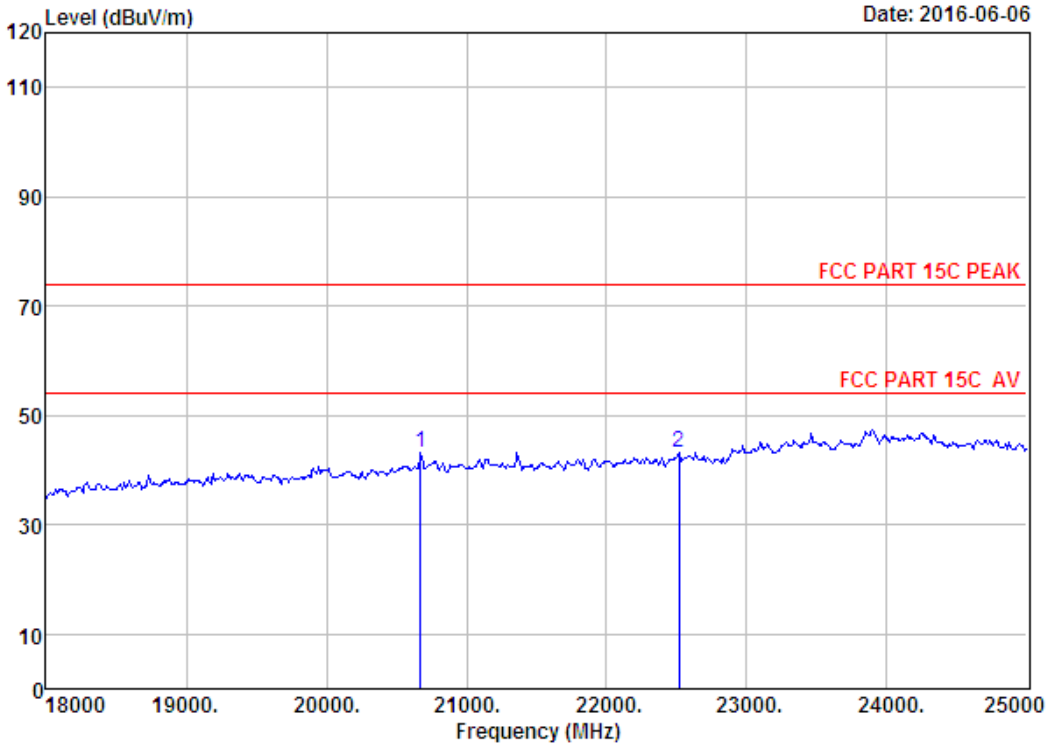


Site no. : 966 1# chamber Data no. : 324
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.00	27.58	6.69	34.98	104.57	103.86	74.00	-29.86	Peak
2	4936.00	31.45	12.37	35.91	42.42	50.33	74.00	23.67	Peak
3	7404.00	36.58	11.60	34.23	34.57	48.52	74.00	25.48	Peak
4	8684.00	37.32	11.45	33.66	30.43	45.54	74.00	28.46	Peak
5	12475.00	38.75	10.92	33.39	29.87	46.15	74.00	27.85	Peak
6	13240.00	39.46	11.46	32.88	31.03	49.07	74.00	24.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

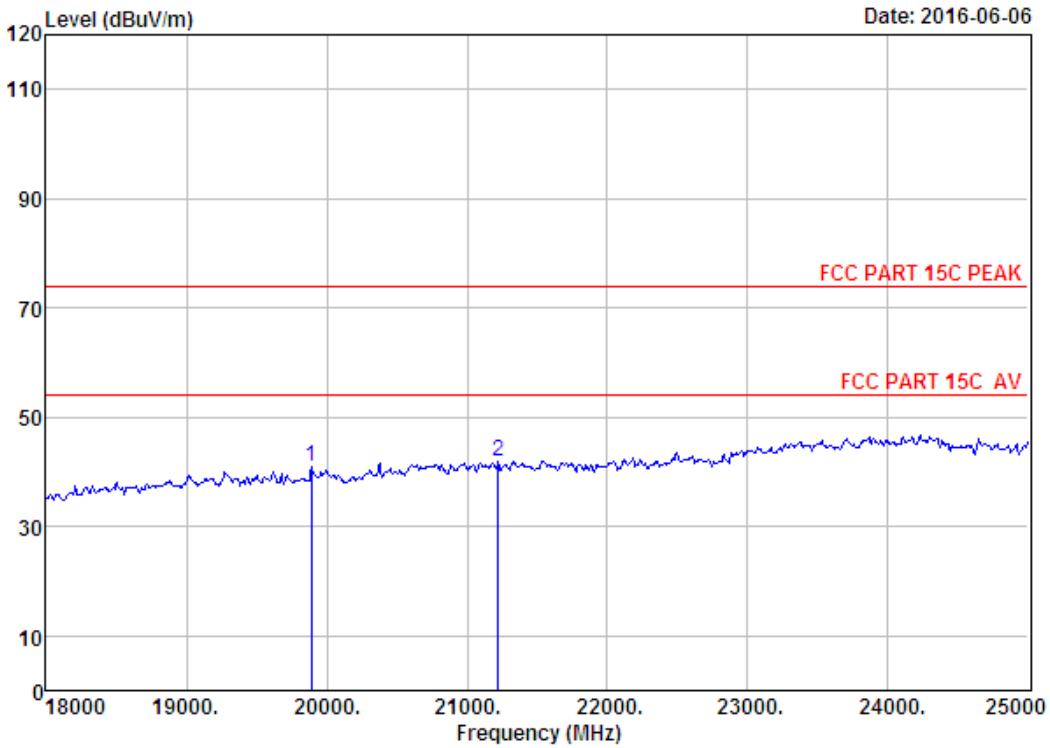
18000-25000 MHz



Site no. : 966 1# chamber Data no. : 325
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20674.00	46.11	19.98	36.09	13.14	43.14	74.00	30.86	Peak
2	22515.00	45.80	20.87	34.35	10.80	43.12	74.00	30.88	Peak

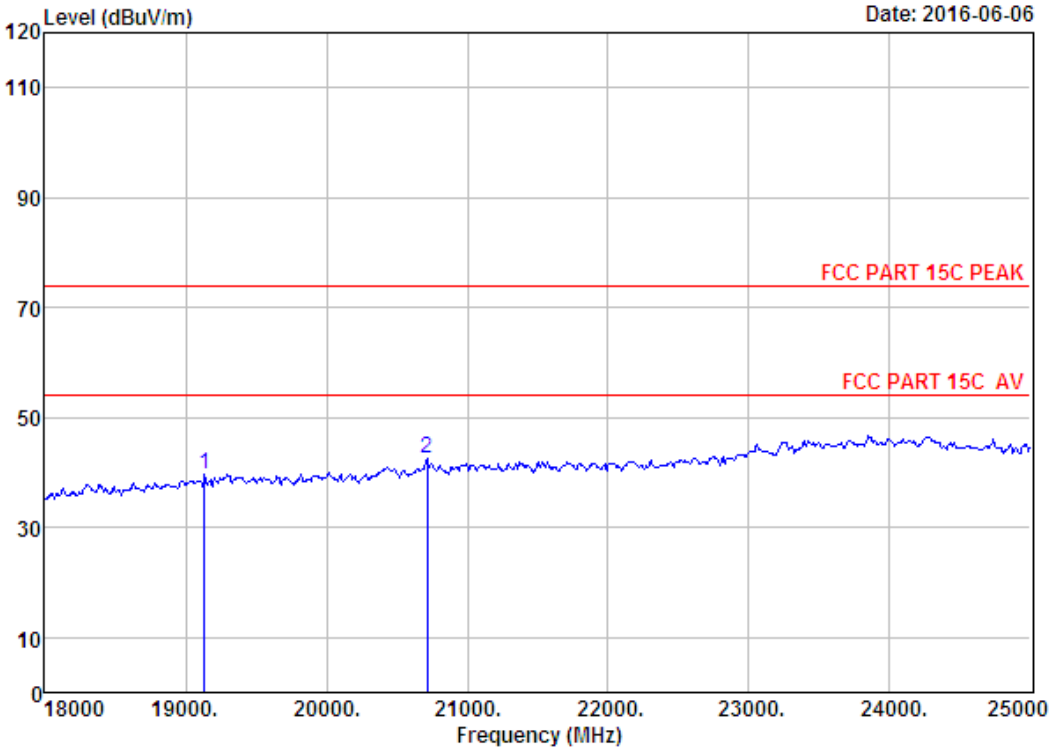
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 326
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	19890.00	46.06	19.56	36.62	11.91	40.91	74.00	33.09	Peak
2	21220.00	46.17	20.23	35.60	10.98	41.78	74.00	32.22	Peak

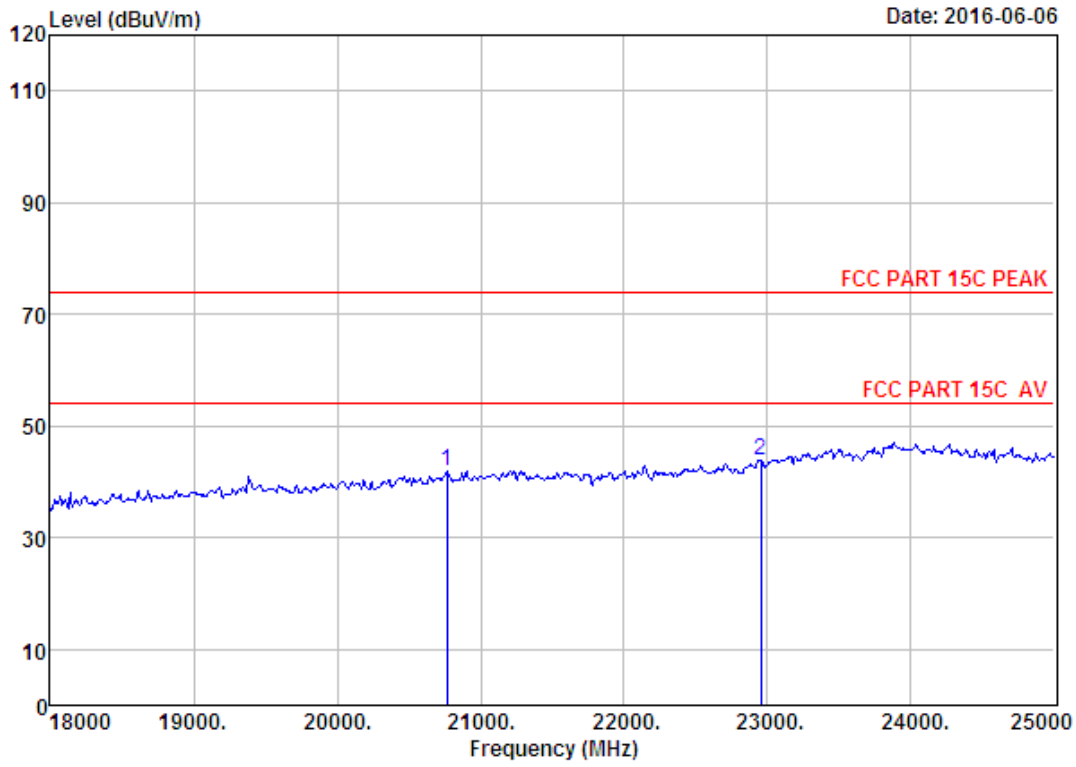
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 327
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	19134.00	45.55	18.69	35.96	11.26	39.54	74.00	34.46	Peak
2	20716.00	46.12	20.00	36.05	12.47	42.54	74.00	31.46	Peak

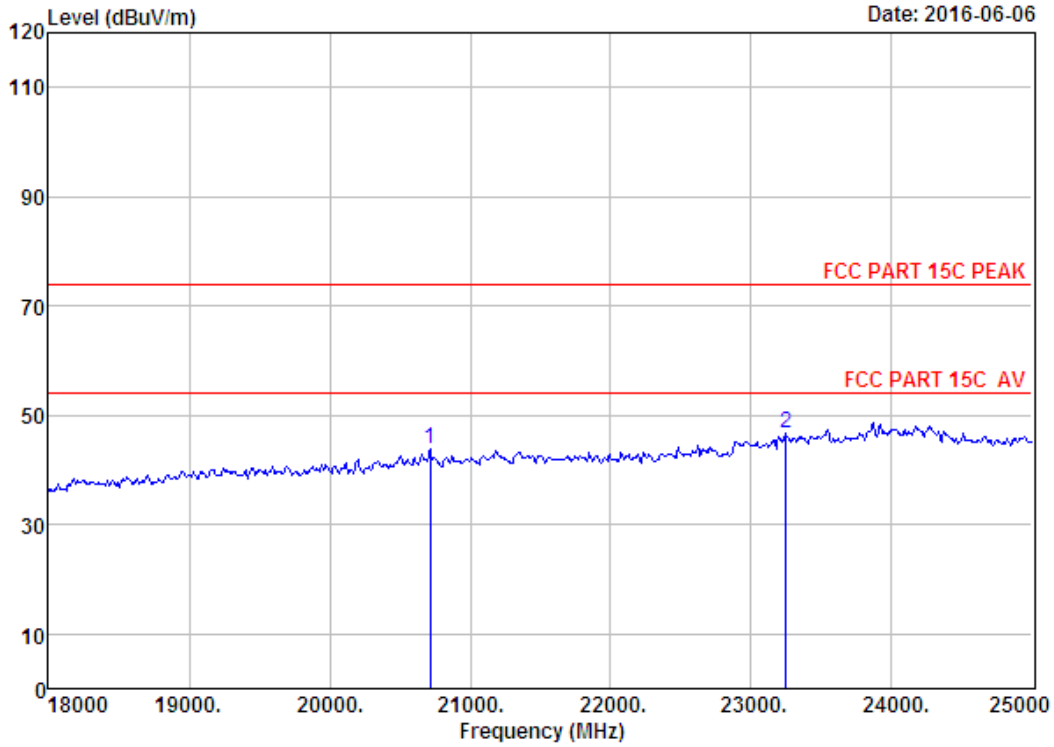
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 328
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20765.00	46.16	20.02	36.00	11.61	41.79	74.00	32.21	Peak
2	22956.00	45.62	21.12	33.90	11.12	43.96	74.00	30.04	Peak

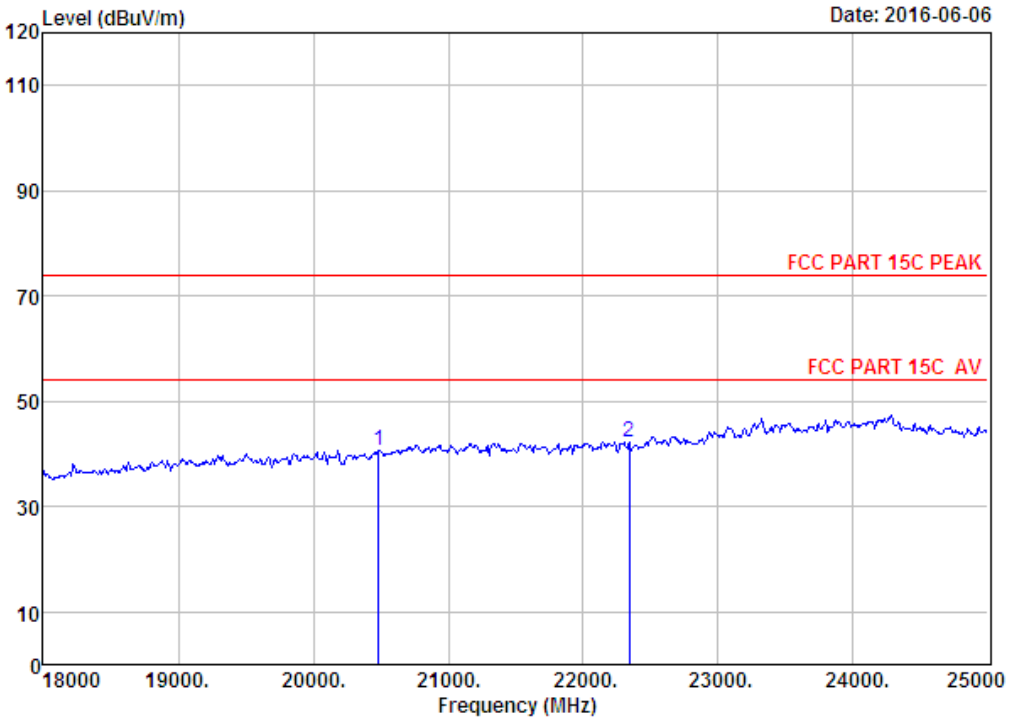
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 329
Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20716.00	46.12	20.00	36.05	13.79	43.86	74.00	30.14	Peak
2	23250.00	45.65	21.37	33.59	13.38	46.81	74.00	27.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 330
Dis. / Ant. : 3m ANT ABVOE 18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20485.00	46.00	19.90	36.27	11.13	40.76	74.00	33.24	Peak
2	22340.00	45.77	20.76	34.53	10.25	42.25	74.00	31.75	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

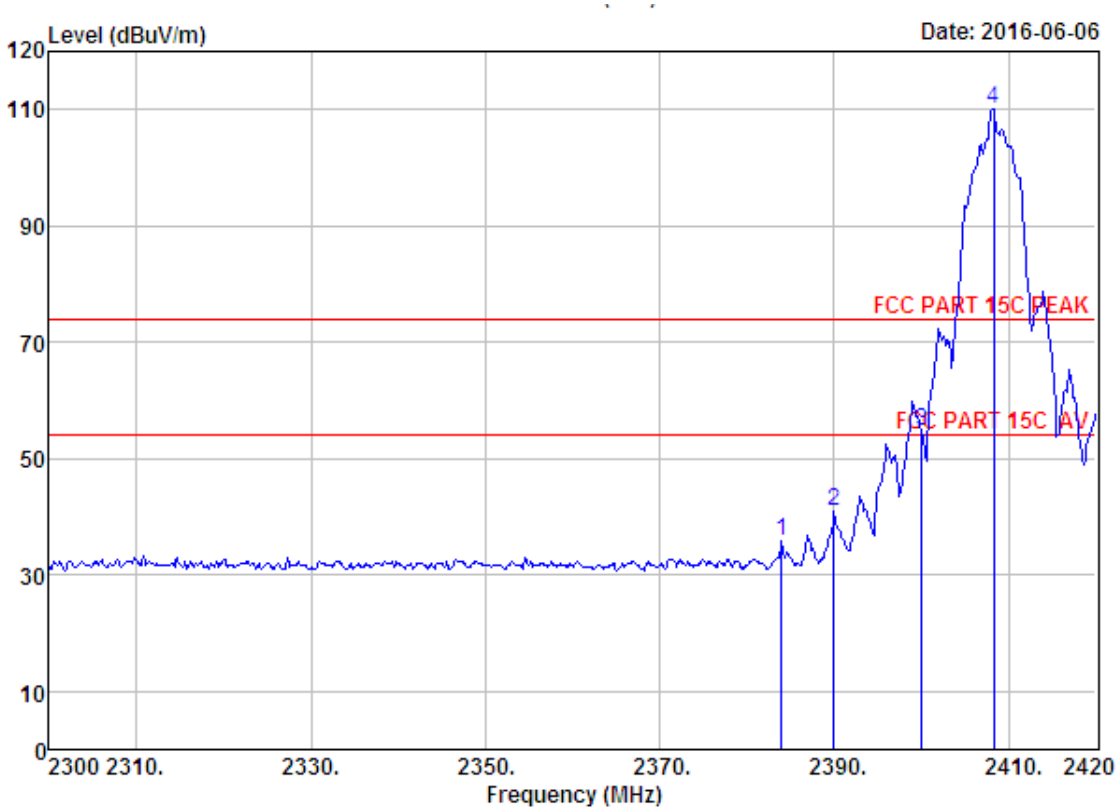
(a) Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
(b) AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto

5.3 Test Result

Pass (The testing data was attached in the next pages.)

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2、The frequency 2408MHz. 2440MHz . 2468MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

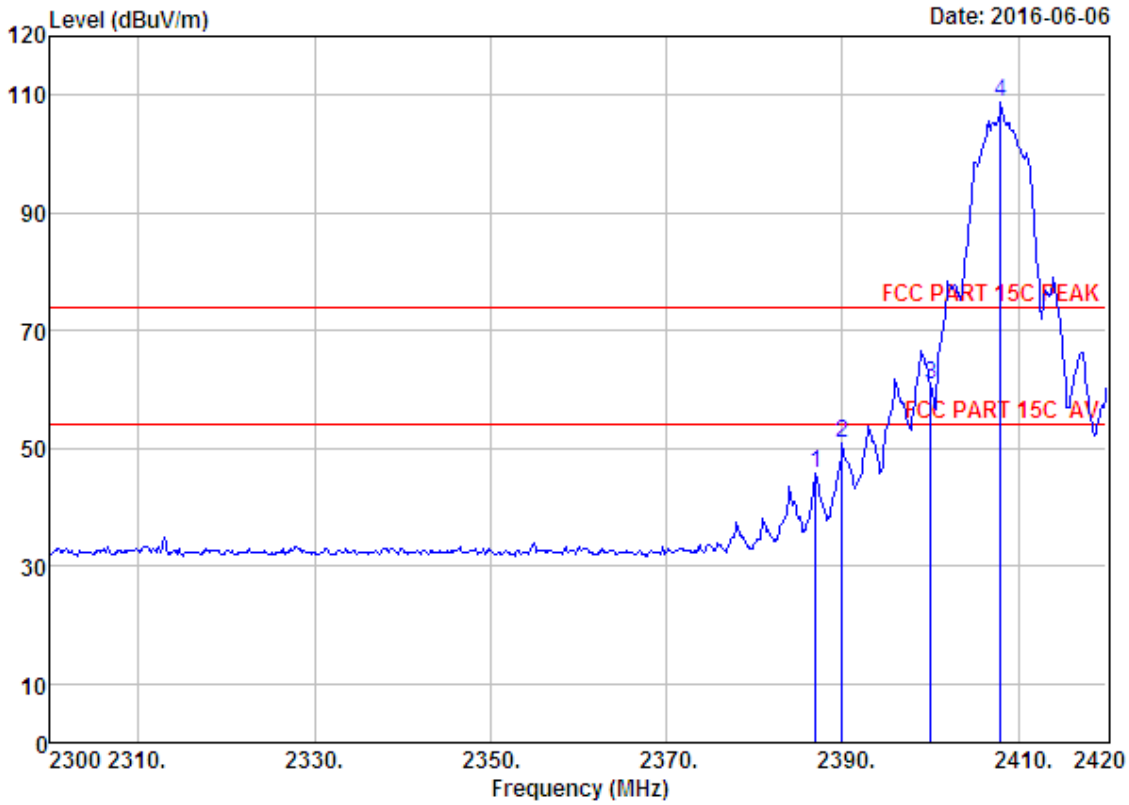
5.4 Test Data



Site no. : site Data no. : 315
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2384.00	27.64	6.60	0.00	1.48	35.72	74.00	38.28	Peak
2	2390.00	27.64	6.62	34.62	41.27	40.91	74.00	33.09	Peak
3	2400.00	27.61	6.62	0.00	20.64	54.87	74.00	19.13	Peak
4	2408.24	27.60	6.64	0.00	75.86	110.10	74.00	-36.10	Peak

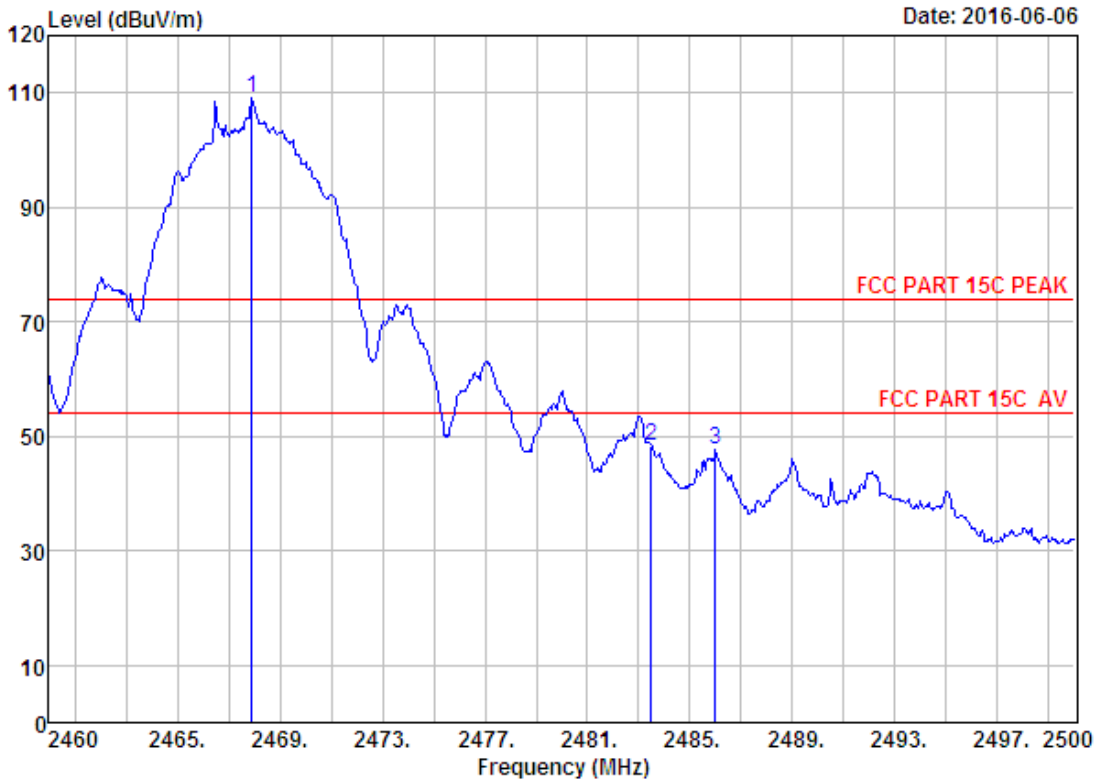
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : site Data no. : 316
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2408MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.00	27.64	6.62	0.00	11.61	45.87	74.00	28.13	Peak
2	2390.00	27.64	6.62	34.62	51.16	50.80	74.00	23.20	Peak
3	2400.00	27.61	6.62	0.00	26.72	60.95	74.00	13.05	Peak
4	2408.00	27.61	6.64	0.00	74.40	108.65	74.00	-34.65	Peak

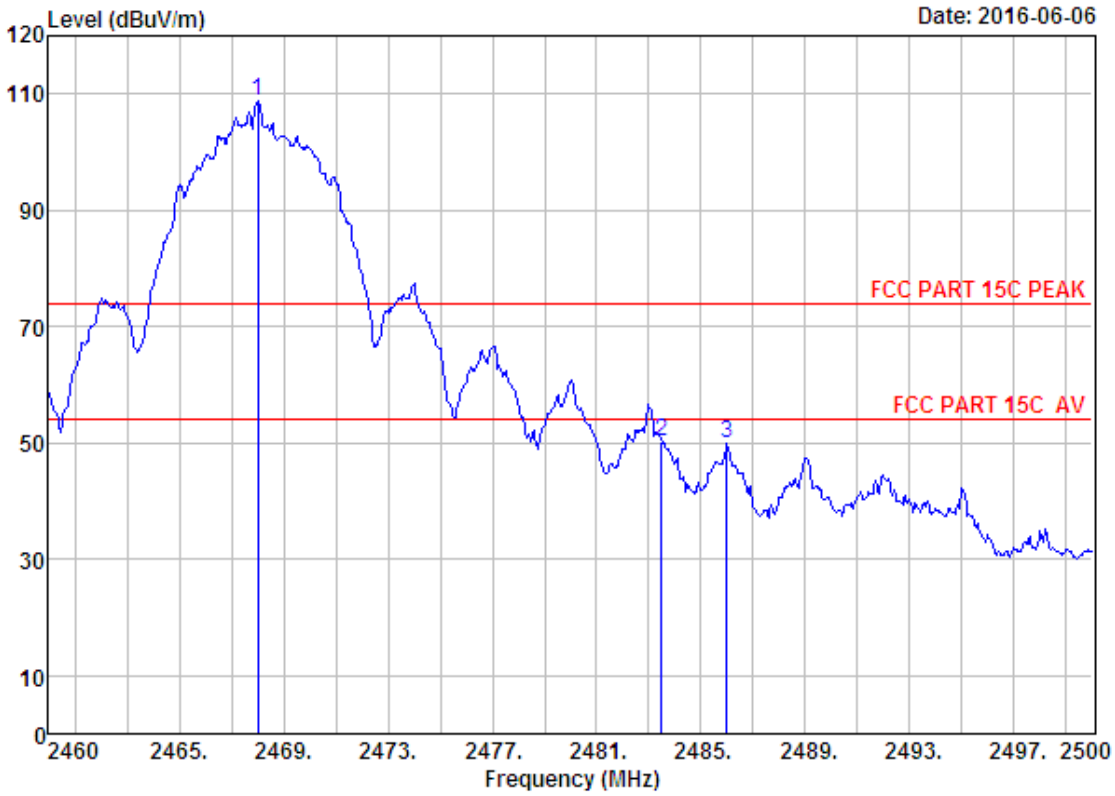
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 317
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.92	27.58	6.69	0.00	74.92	109.19	74.00	-35.19	Peak
2	2483.50	27.58	6.71	35.11	49.13	48.31	74.00	25.69	Peak
3	2486.00	27.58	6.71	0.00	13.23	47.52	74.00	26.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 318
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : 2.4G wireless camera product
Power : DC 12V From Adapter Input AC 120V/60Hz
M/N : LWU3720-C
Test Mode : TX 2468MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.00	27.58	6.69	0.00	74.62	108.89	74.00	-34.89	Peak
2	2483.50	27.58	6.71	0.00	15.83	50.12	74.00	23.88	Peak
3	2486.00	27.58	6.71	0.00	15.71	50.00	74.00	24.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

6 6dB & 20dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1). Set resolution bandwidth (RBW) = 100 kHz.
(2). Set the video bandwidth (VBW) ≥ 3 x 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.

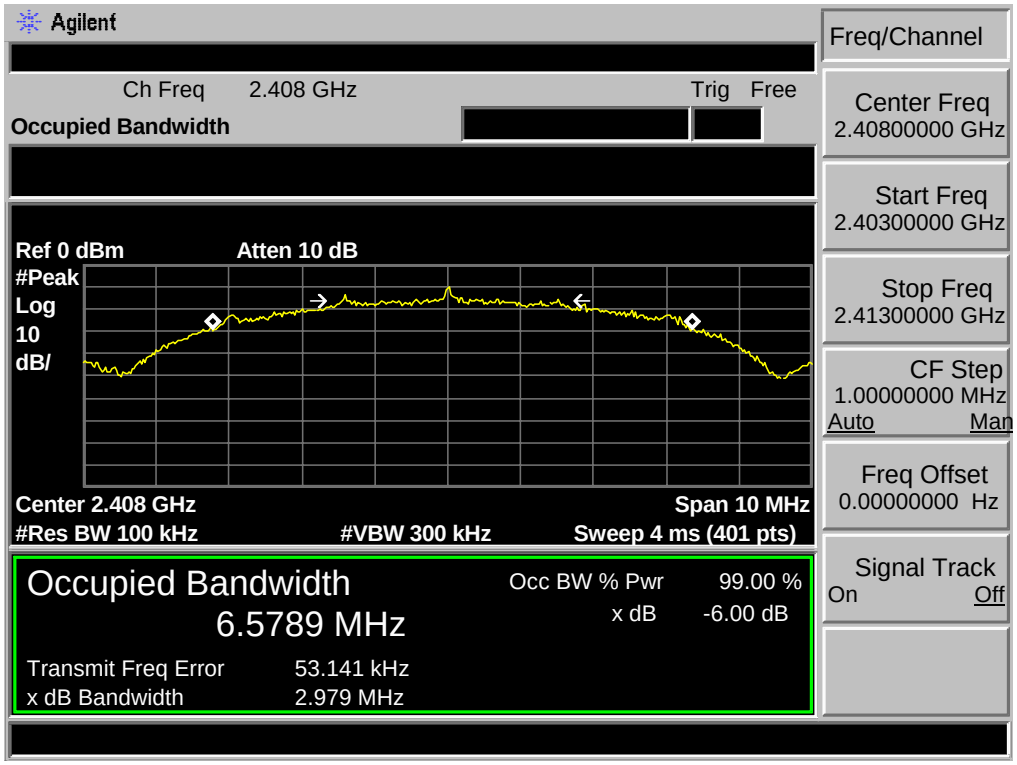
6.3 Test Result

EUT: 2.4G wireless camera product			
M/N: LWU3720-C			
Test date: 2016-06-15		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth（MHz）	Limit (KHz)
DSSS	CH1	2.979	>500
	CH9	3.830	>500
	CH16	3.324	>500
Conclusion：PASS			

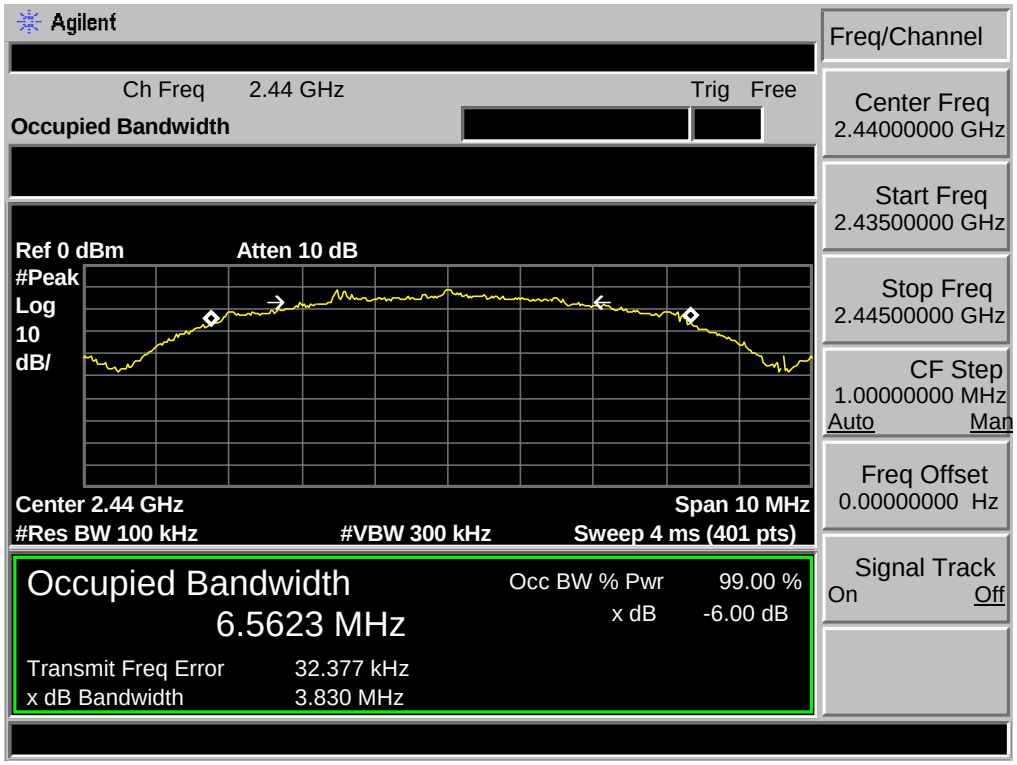
EUT: 2.4G wireless camera product			
M/N: LWU3720-C			
Test date: 2016-06-15		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	20dB bandwidth（MHz）	Limit (KHz)
DSSS	CH1	7.053	/
	CH9	7.356	/
	CH16	7.438	/
Conclusion：PASS			

6.4 6dB Test Data

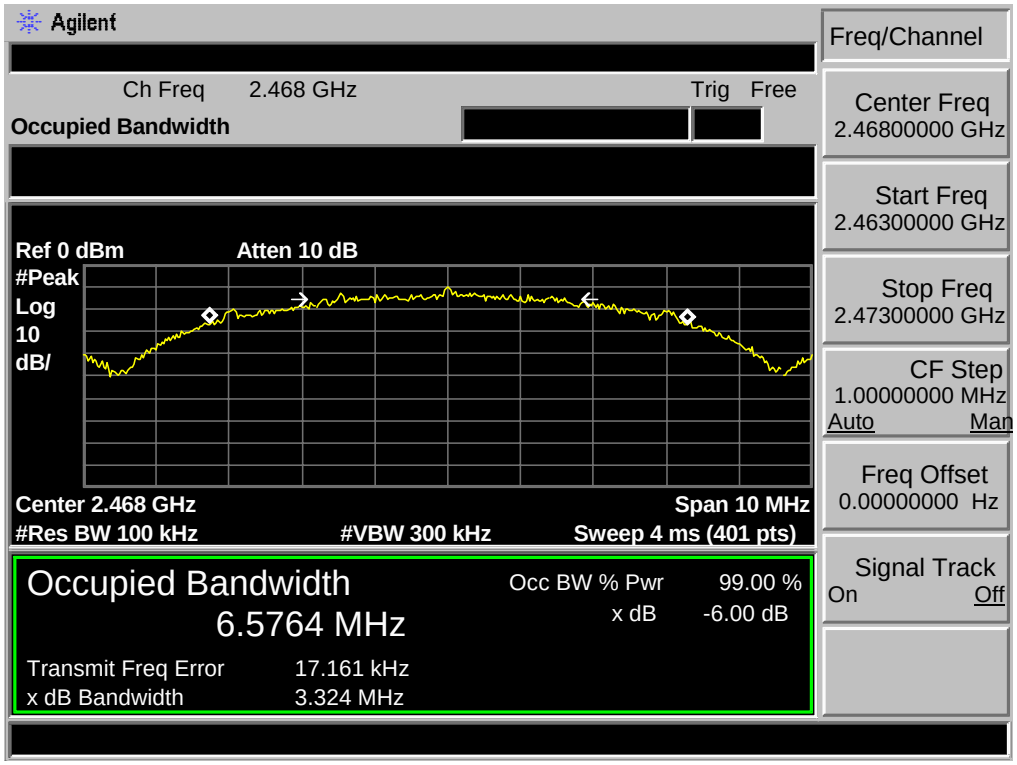
Test Mode: 2408MHz



Test Mode: 2440MHz

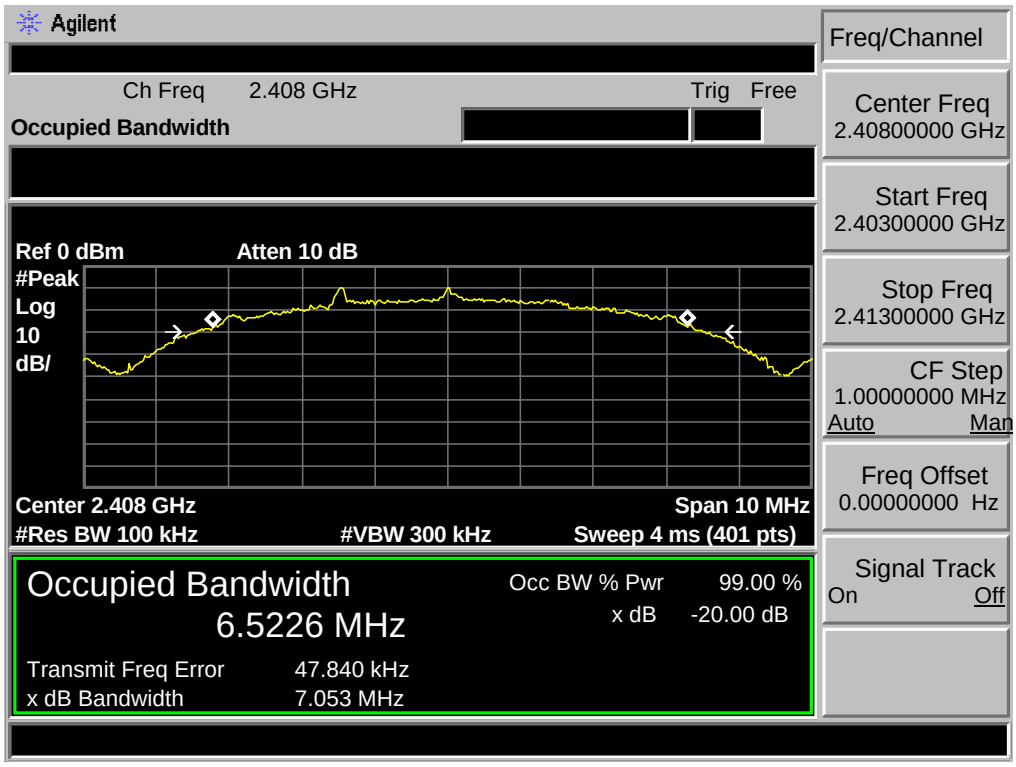


Test Mode: 2468MHz

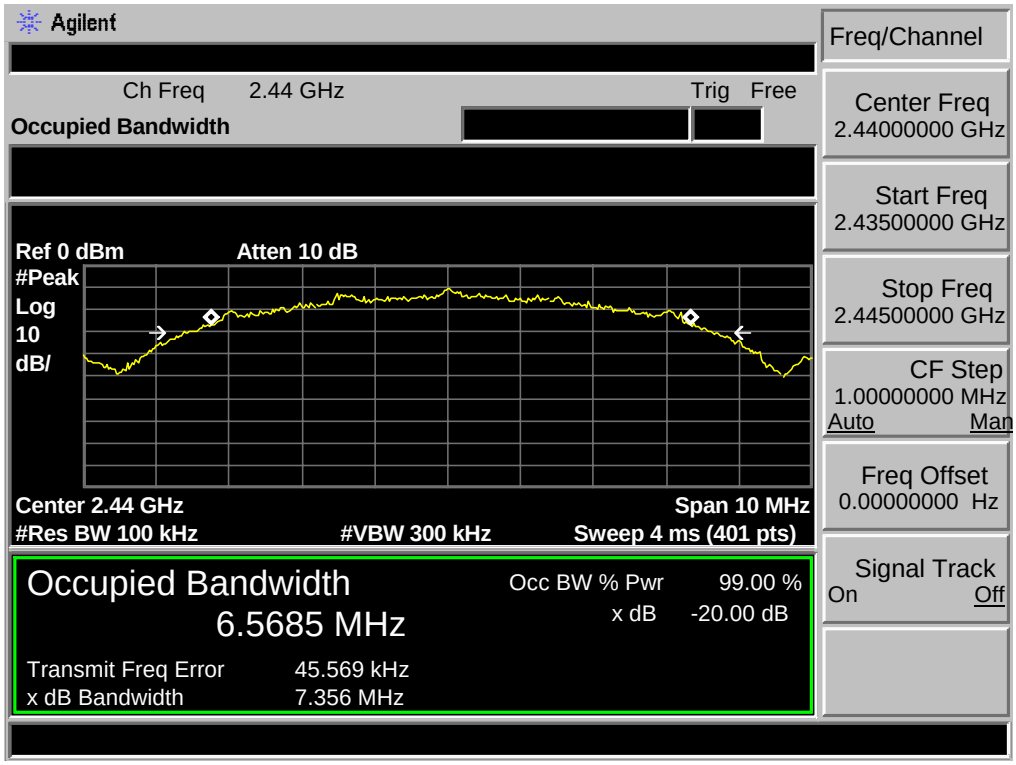


6.5 20dB Test Data

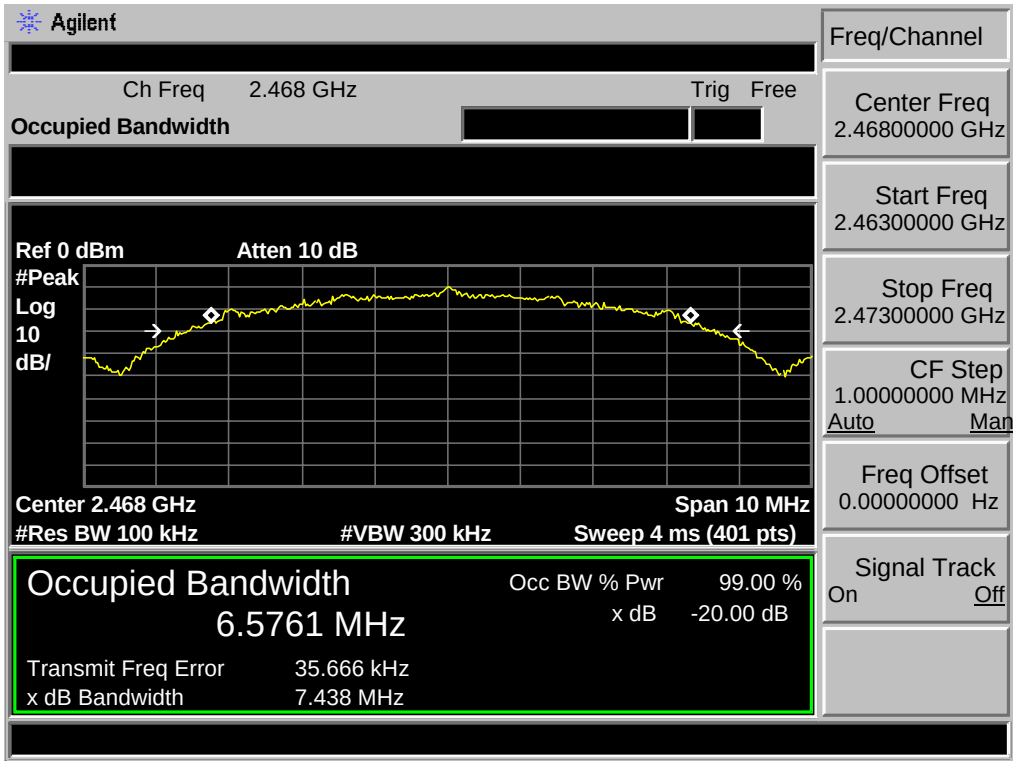
Test Mode: 2408MHz



Test Mode: 2440MHz



Test Mode: 2468MHz



7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

7.2 Test Procedure

7.3 Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1)Set span to at least 1.5 times the OBW.
(2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
(3)Set VBW ≥ 3 x RBW.
(4)Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(4)Sweep time = auto.
(5)Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
(6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
(7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
(8)Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4 Test Result

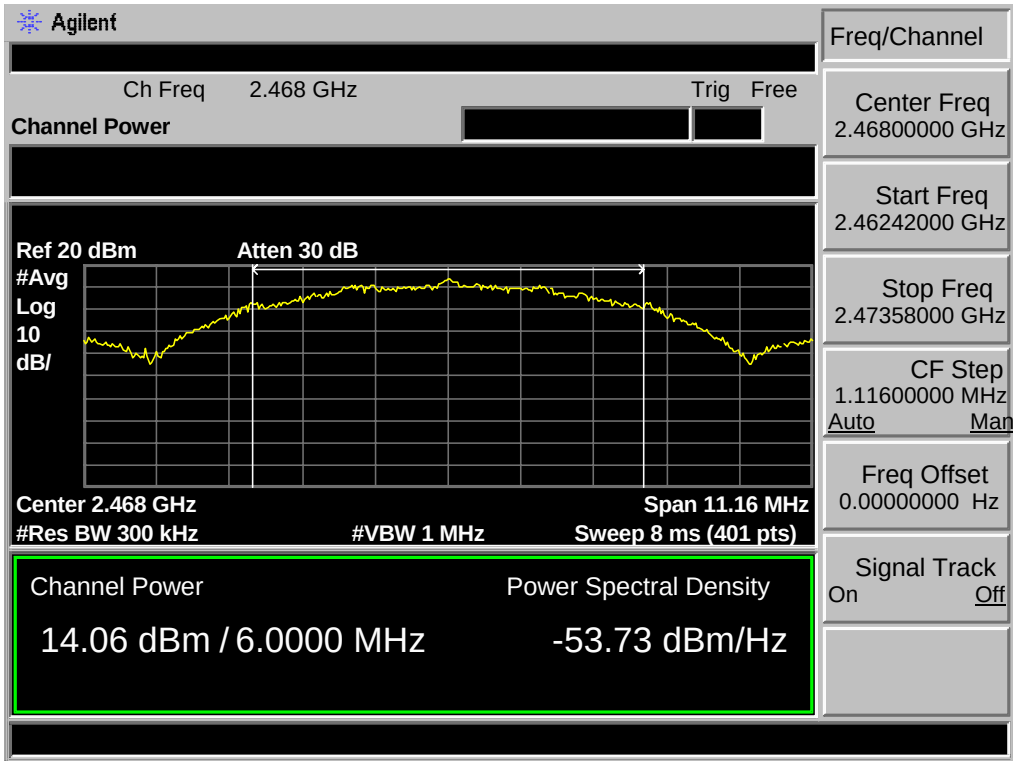
EUT: 2.4G wireless camera product			
M/N: LWU3720-C			
Test date: 2016-06-15		Tested by: Tony.Tang	Test site: RF Site
Pass			
Test Mode	CH	Conducted Power （dBm）	Limit (dBm)
DSSS	CH1	12.29	30
	CH9	13.47	30
	CH16	14.06	30
Conclusion：PASS			

7.5 Test Data

Test Mode: 2408MHz

Test Mode: 2440MHz

Test Mode: 2468MHz



8 POWER SPECTRAL DENSITY TEST

8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.2 Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.

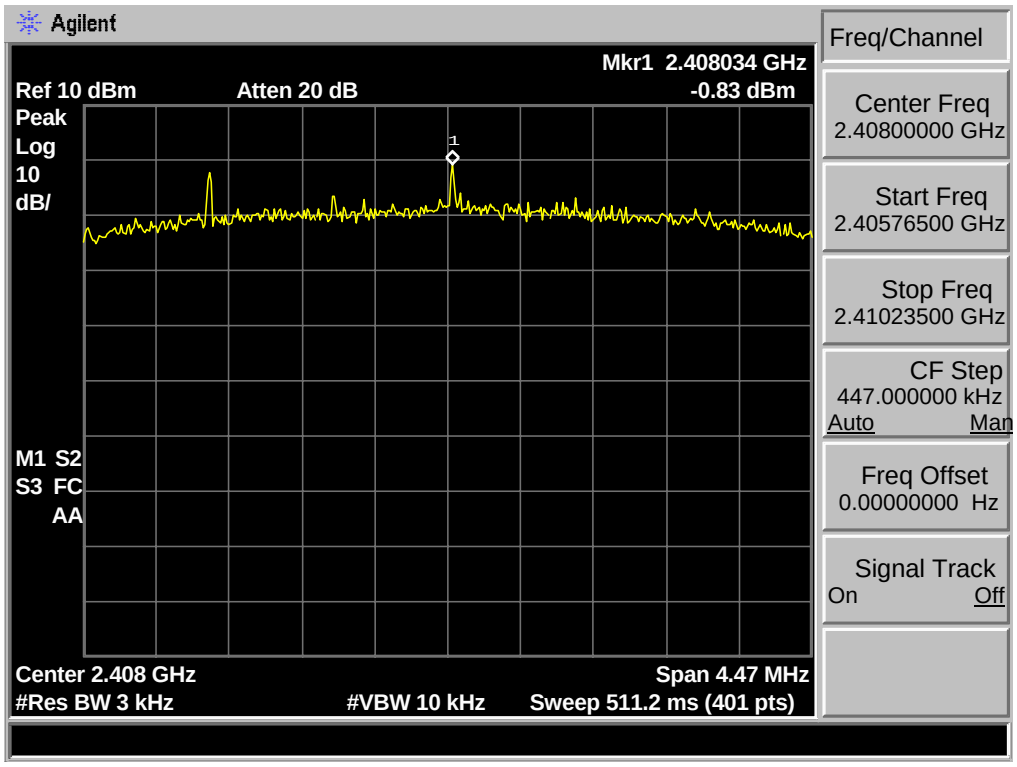
2, Follow the test procedure as described in KDB 558074
(1). Set analyzer center frequency to DTS channel center frequency.
(2). Set the span to 1.5 times the DTS bandwidth.
(3). Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
(4). Set the VBW ≥ 3 RBW.
(5). Detector = peak.
(6). Sweep time = auto couple.
(7). 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.

8.3 Test Result

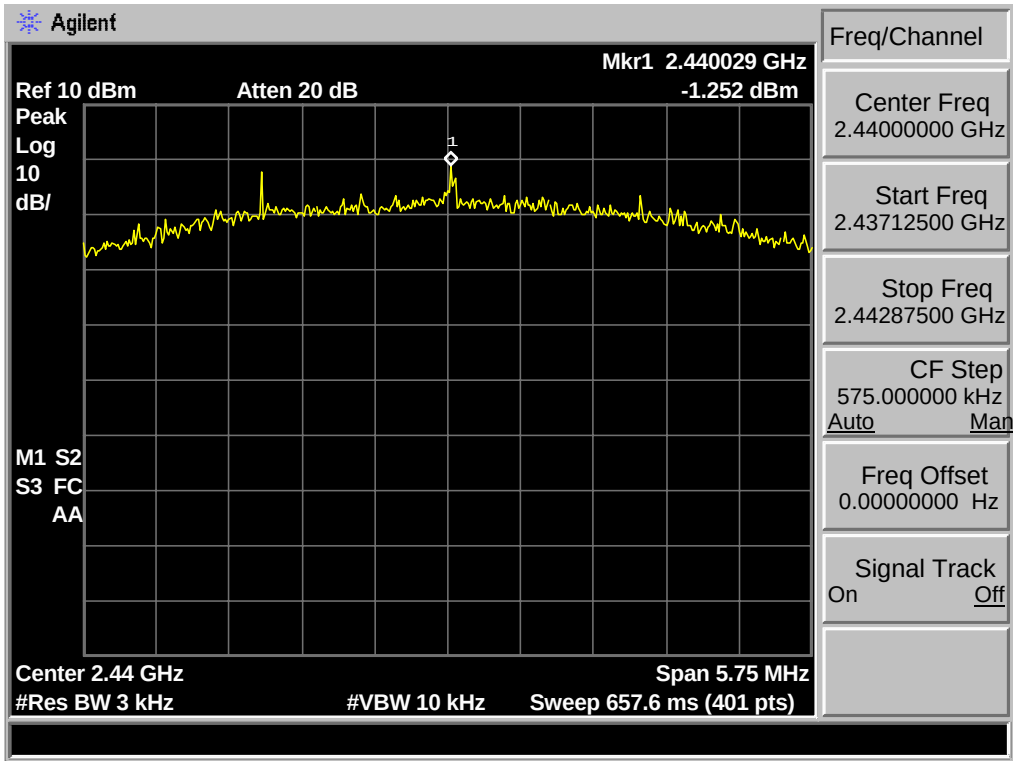
EUT: 2.4G wireless camera product			
M/N: LWU3720-C			
Test date: 2016-06-15		Tested by: Tony Tang	Test site: RF site
Pass			
Test Mode	CH	Power density (dBm/3kHz）	Limit (dBm/3kHz)
DSSS	CH1	-0.830	8
	CH9	-1.252	8
	CH16	-0.290	8
Conclusion：PASS			

8.4 Test Data

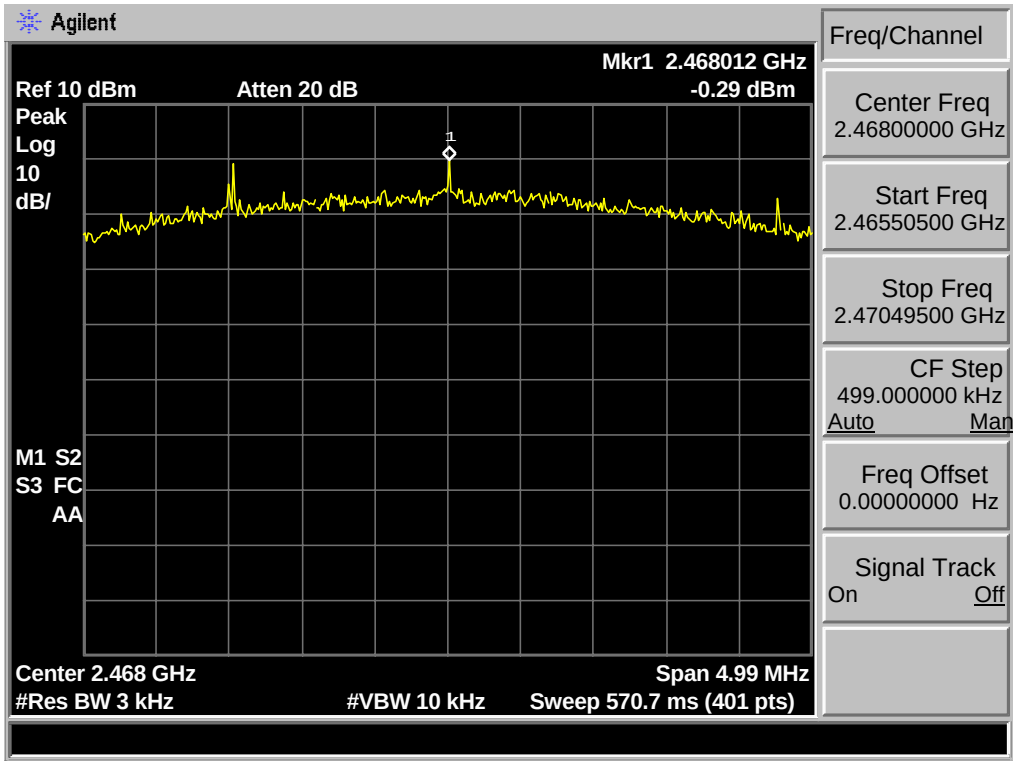
Test Mode: 2408MHz



Test Mode: 2440MHz



Test Mode: 2468MHz



9 ANTENNA REQUIREMENTS

9.1 Limit

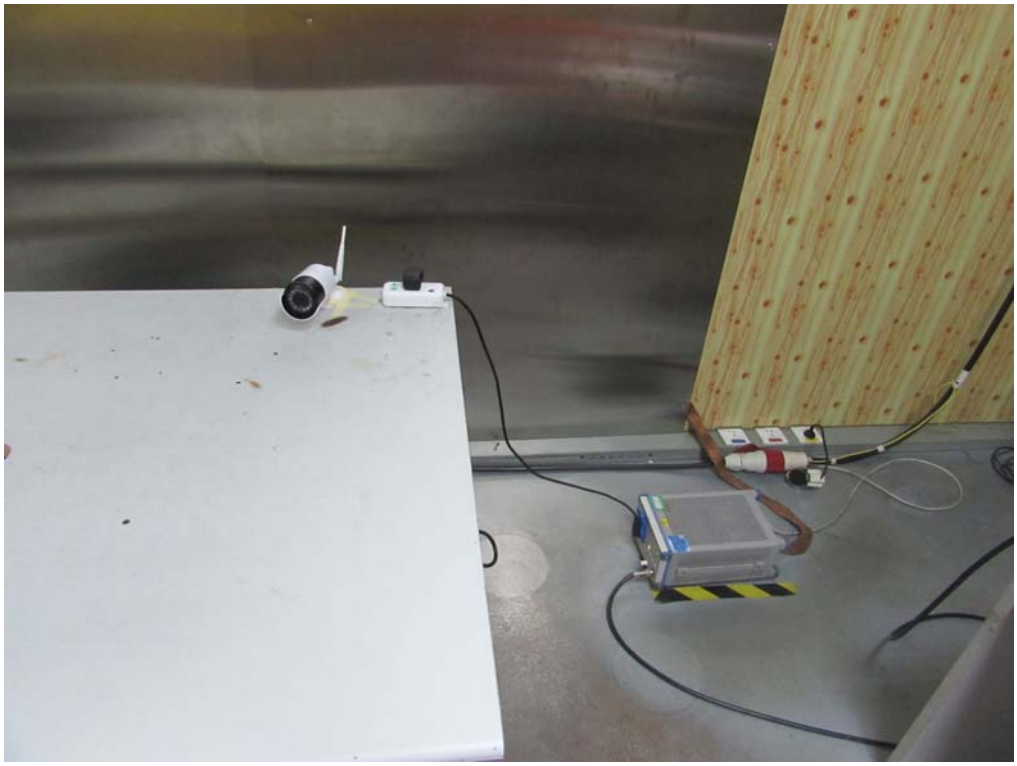
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Result

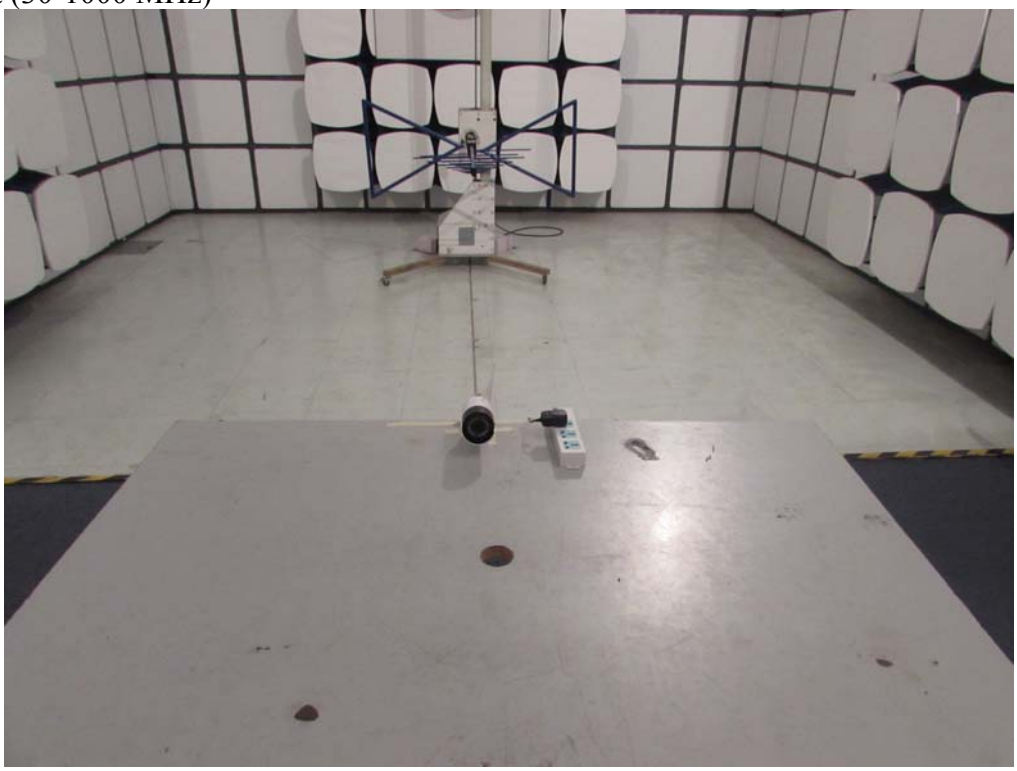
The antennas used for this product are Integral antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 3 dBi.

10 TEST SETUP PHOTO

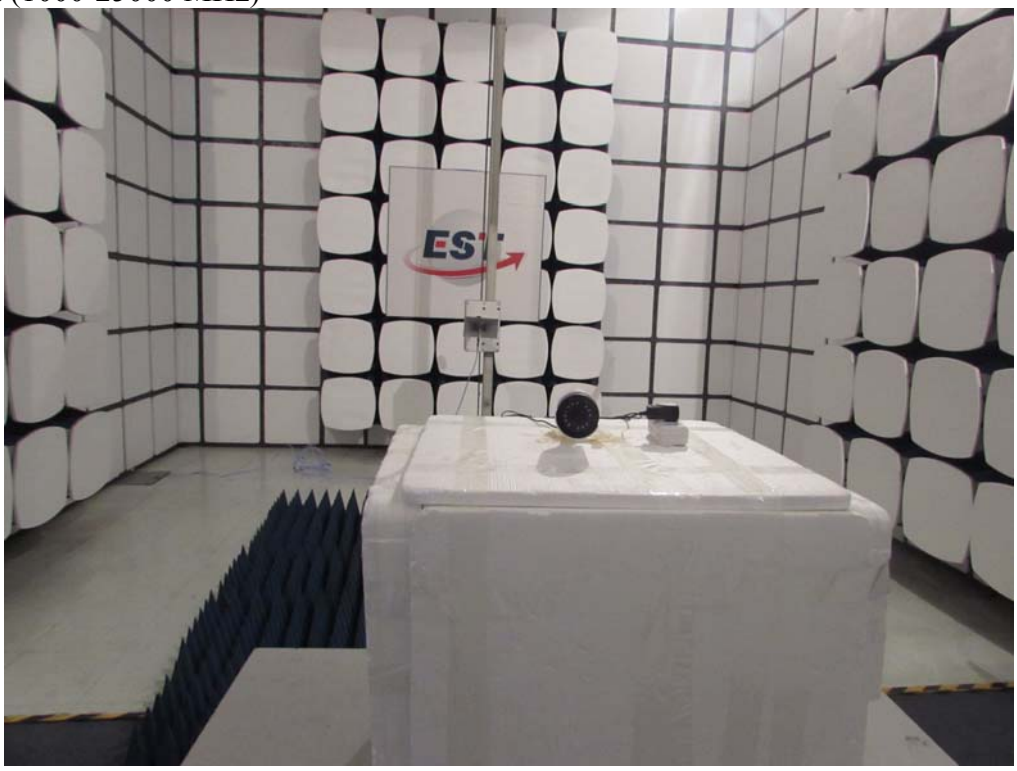
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



11 PHOTOS OF EUT

External Photos

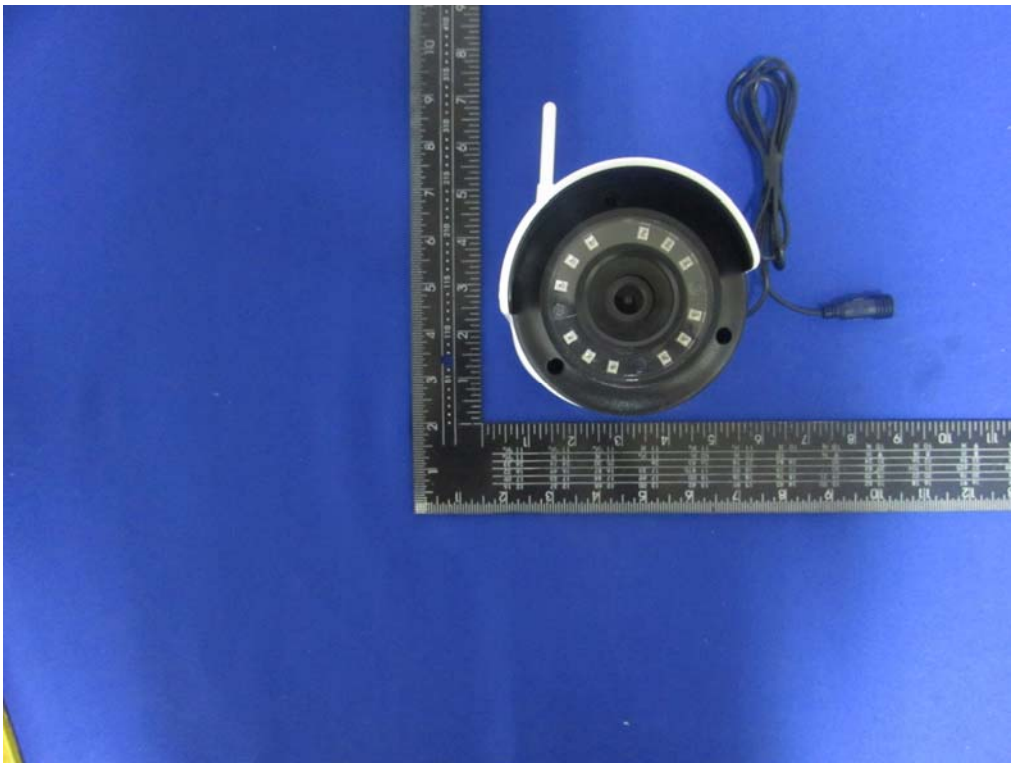
M/N: LWU3720-C

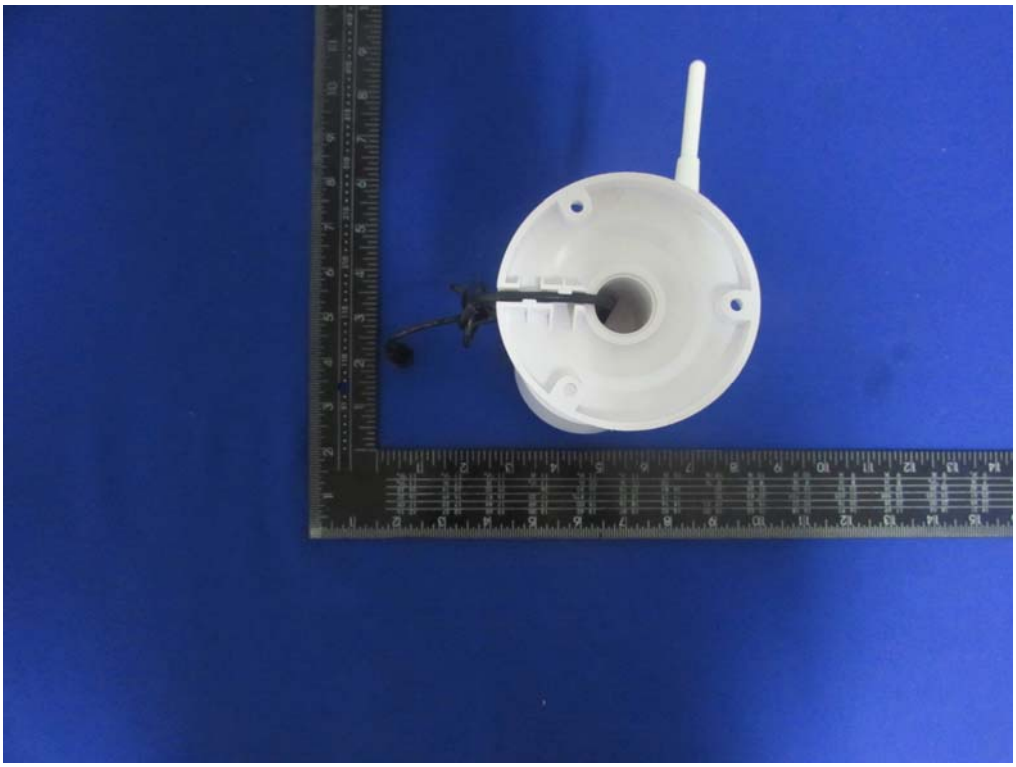
External Photos

M/N: LWU3720-C

External Photos

M/N: LWU3720-C



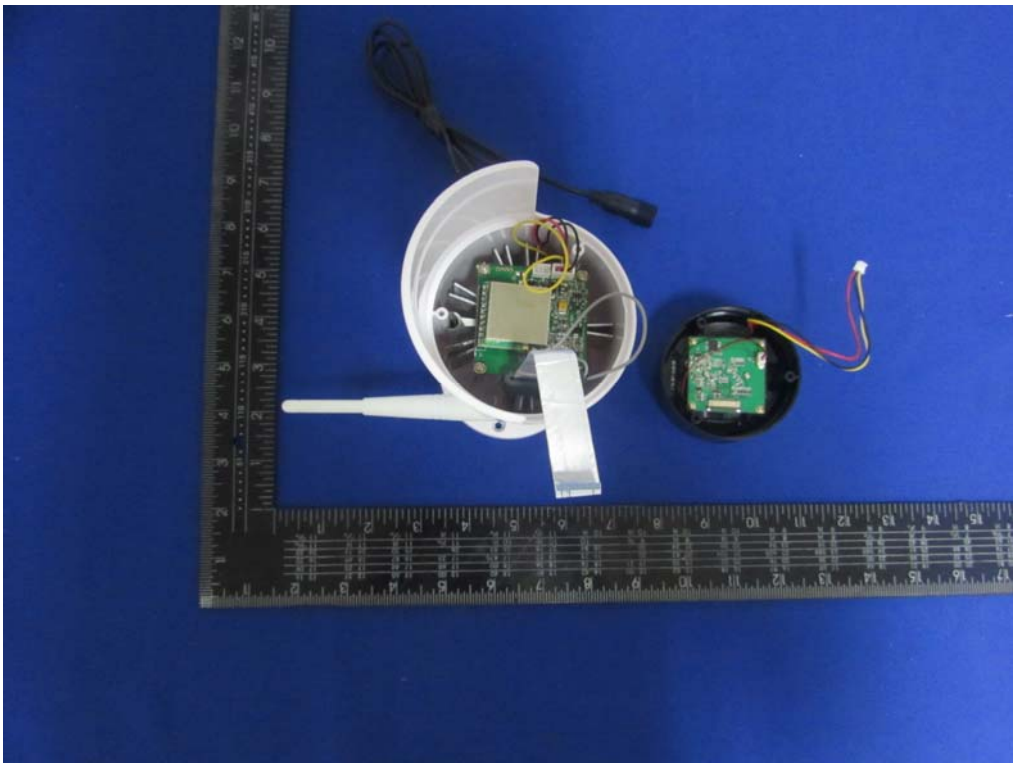


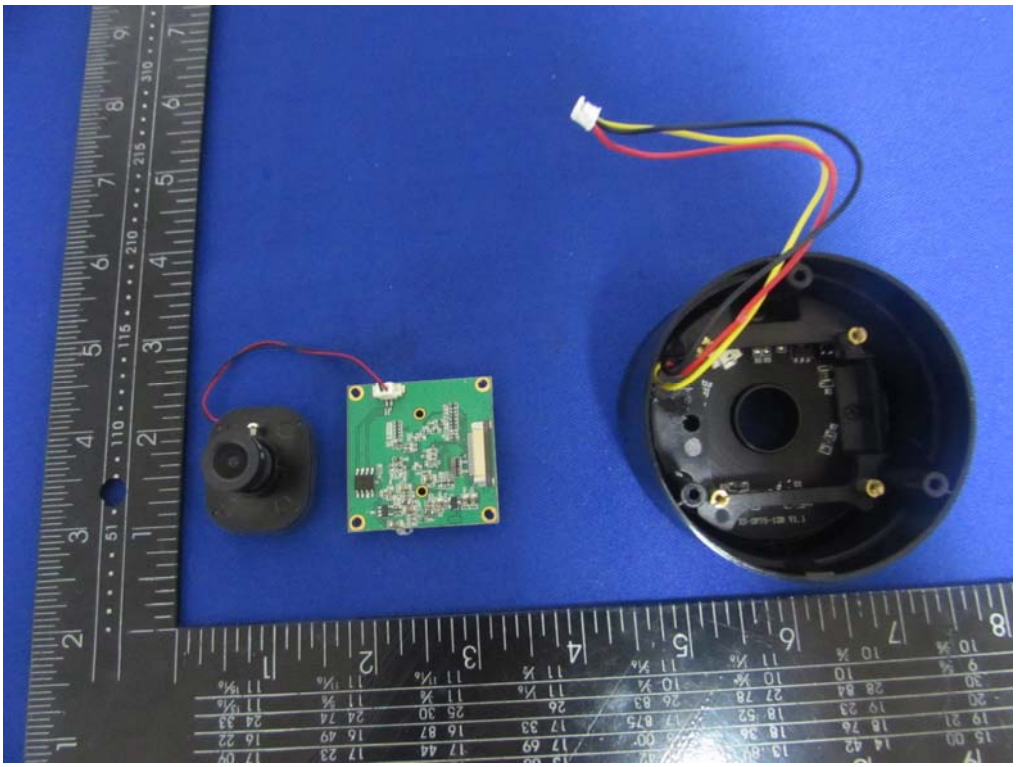
External Photos

M/N: LWU3720-C

Internal Photos

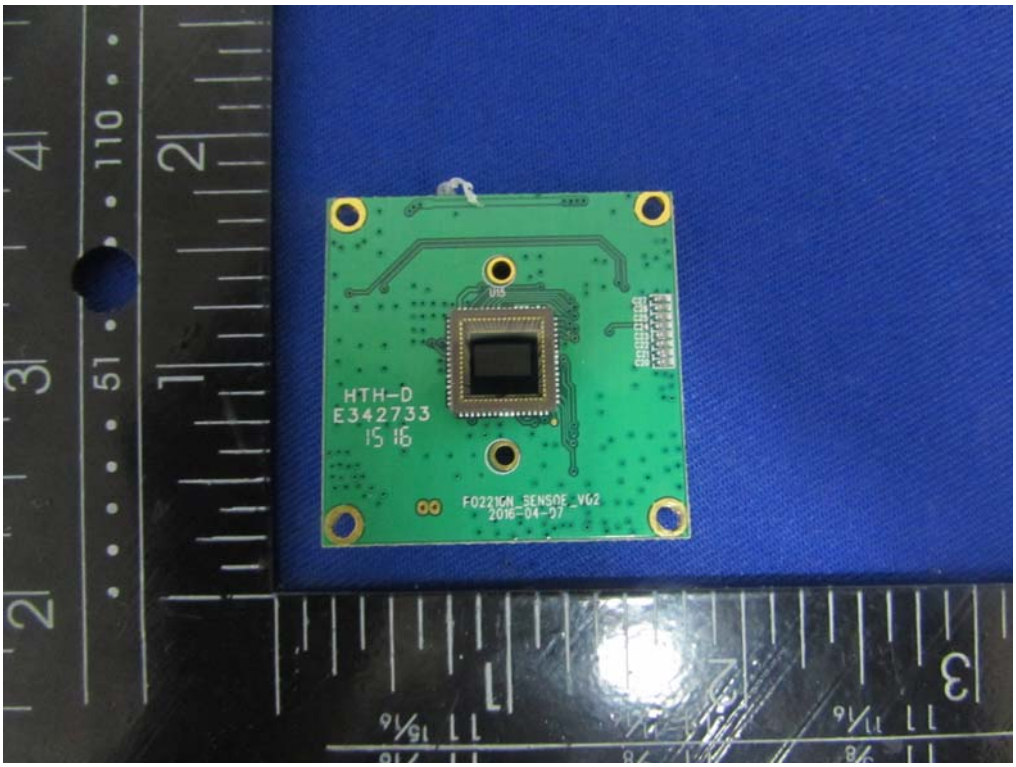
M/N: LWU3720-C

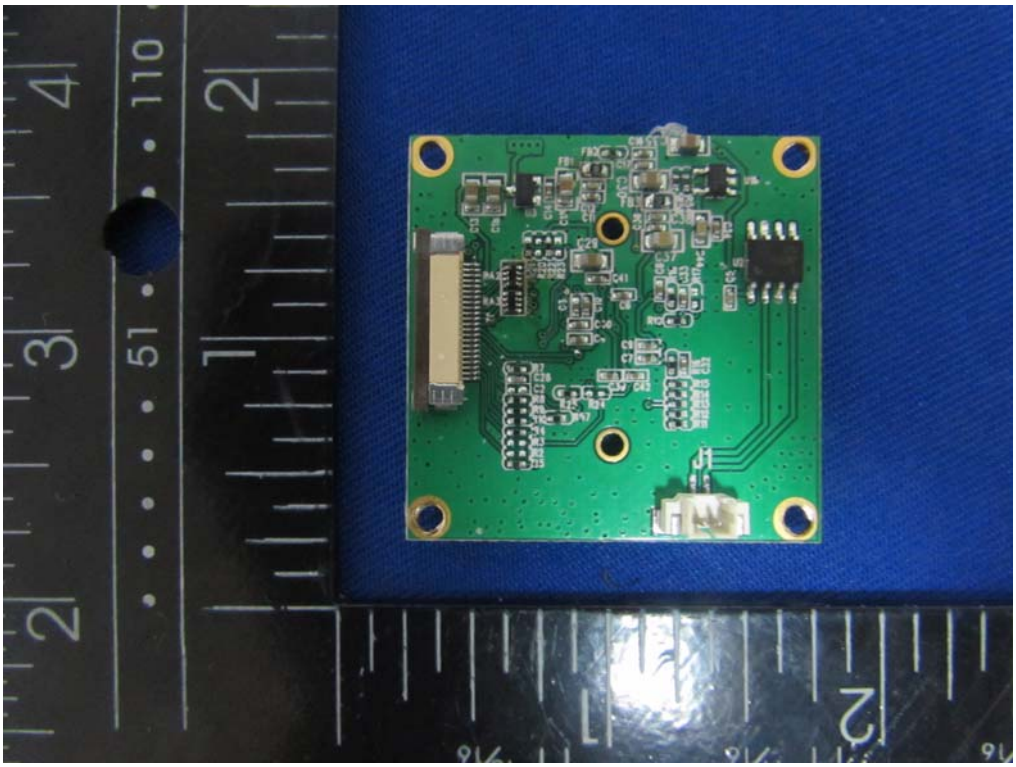




Internal Photos

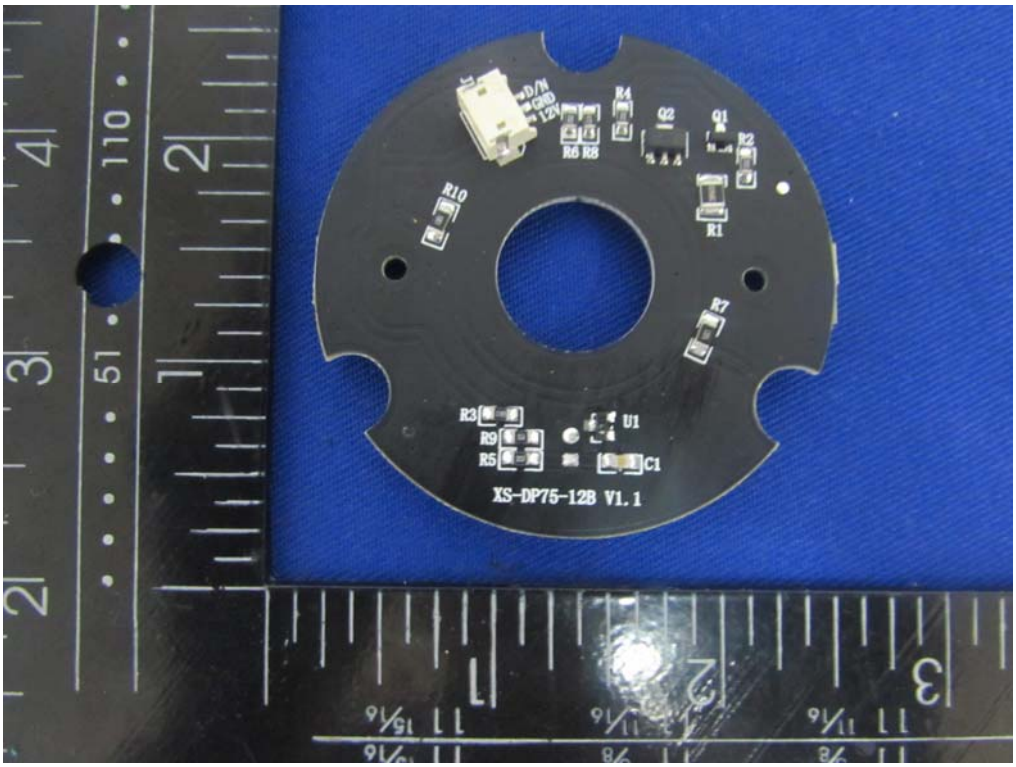
M/N: LWU3720-C

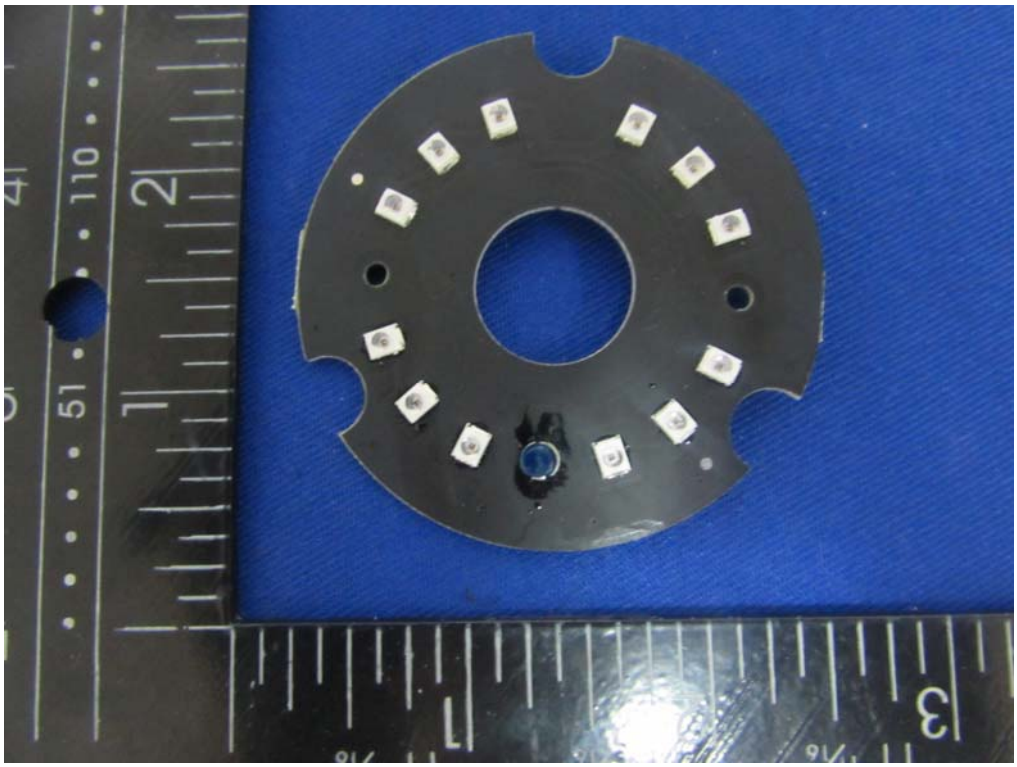




Internal Photos

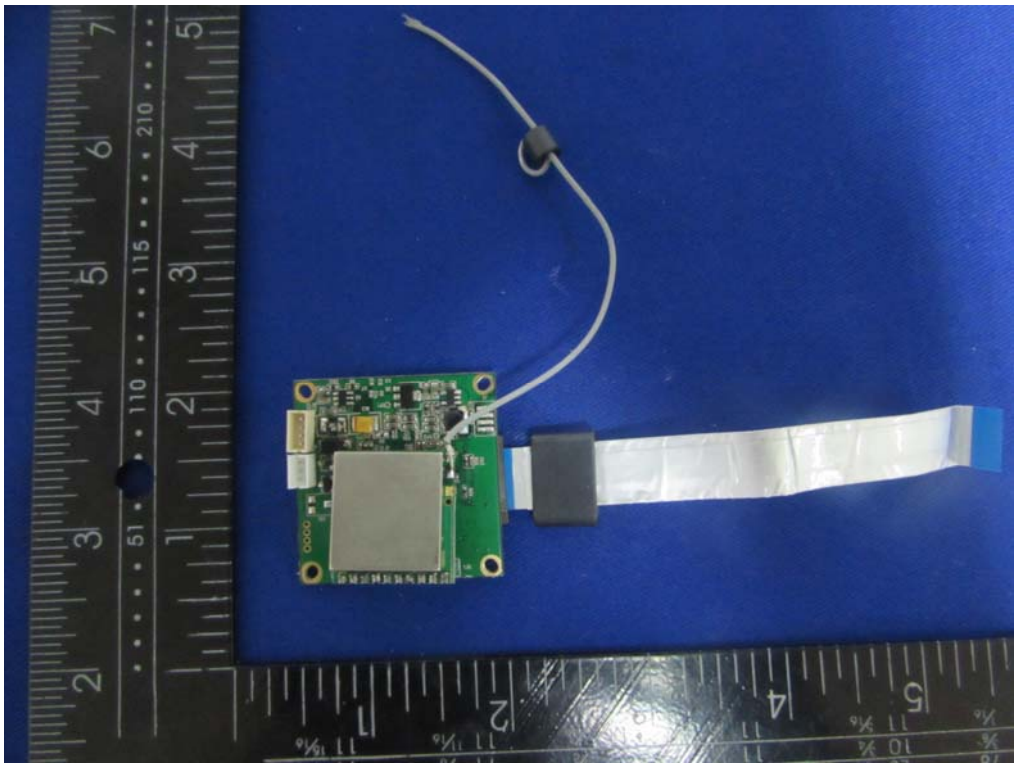
M/N: LWU3720-C

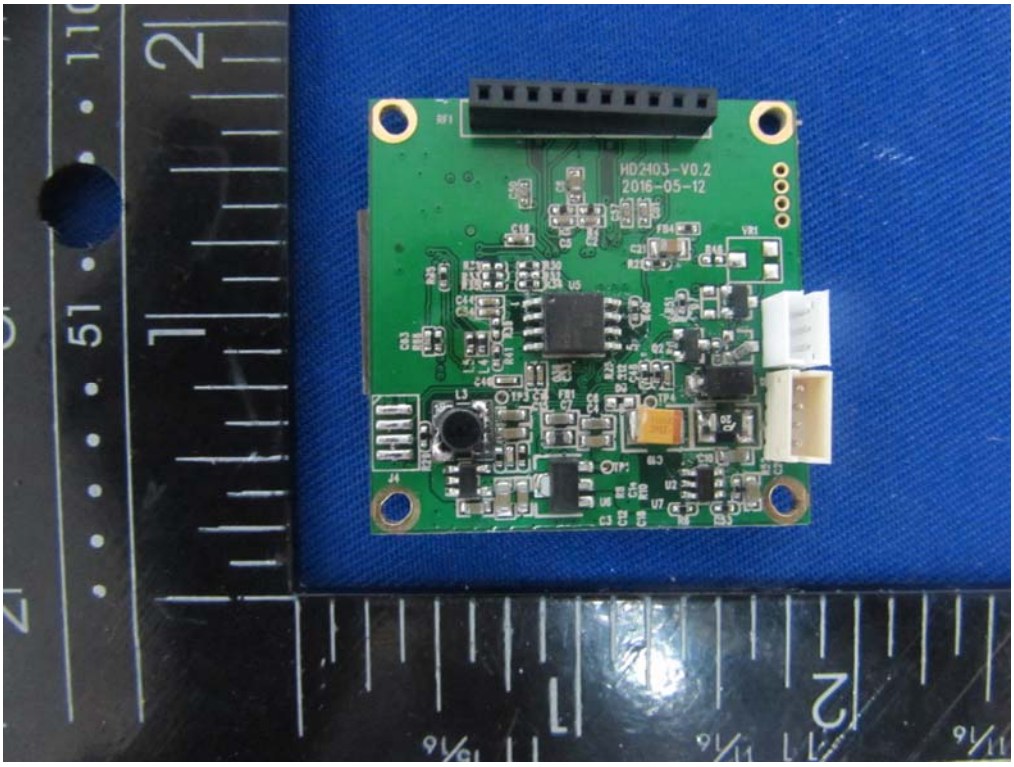


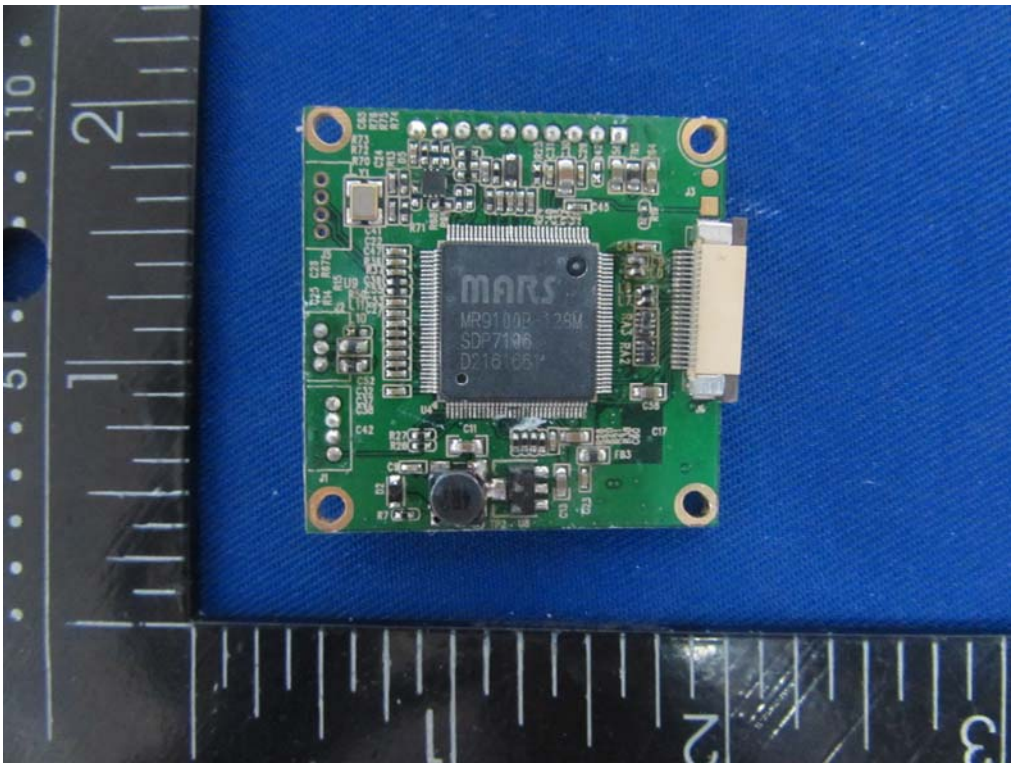


Internal Photos

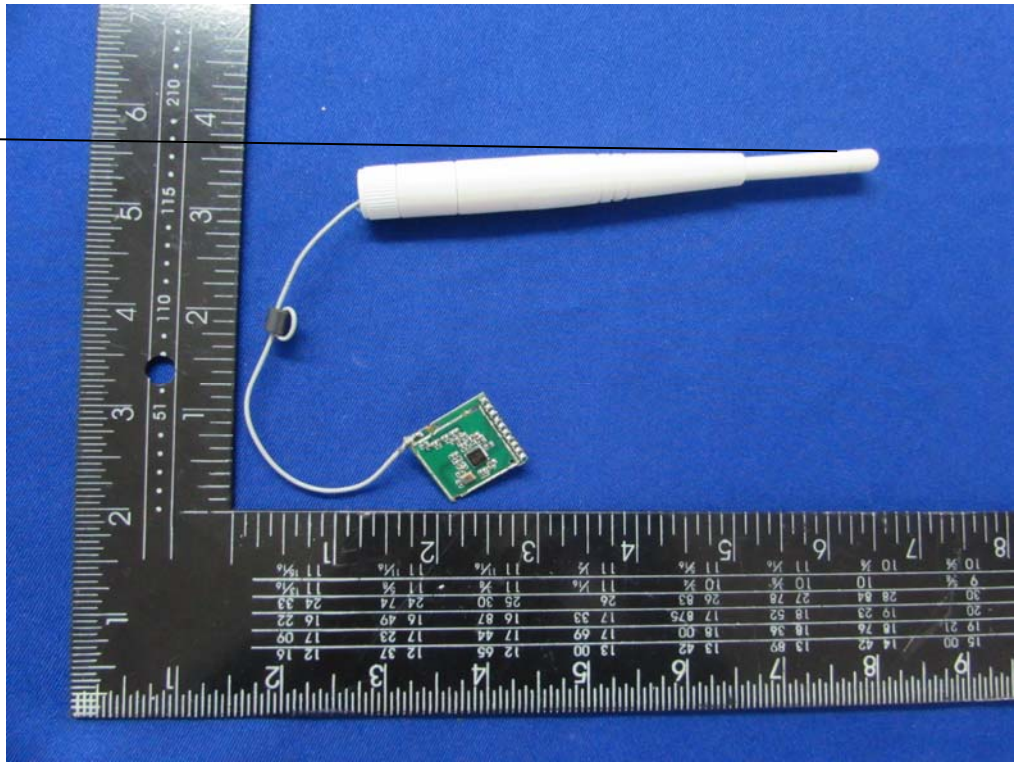
M/N: LWU3720-C

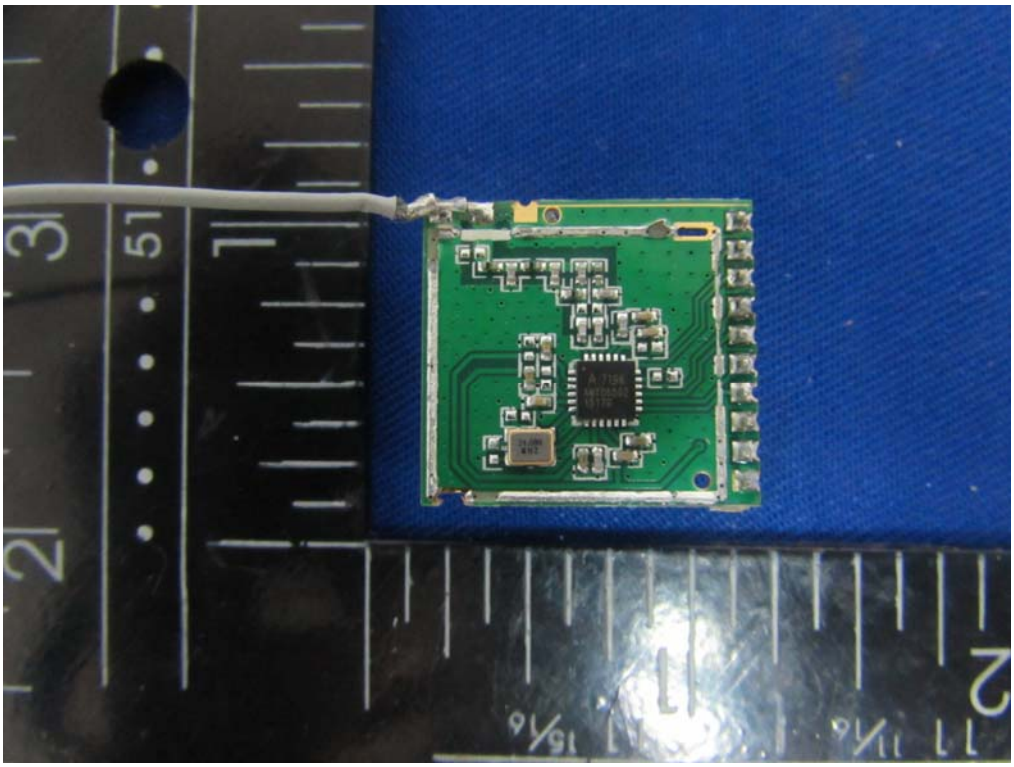


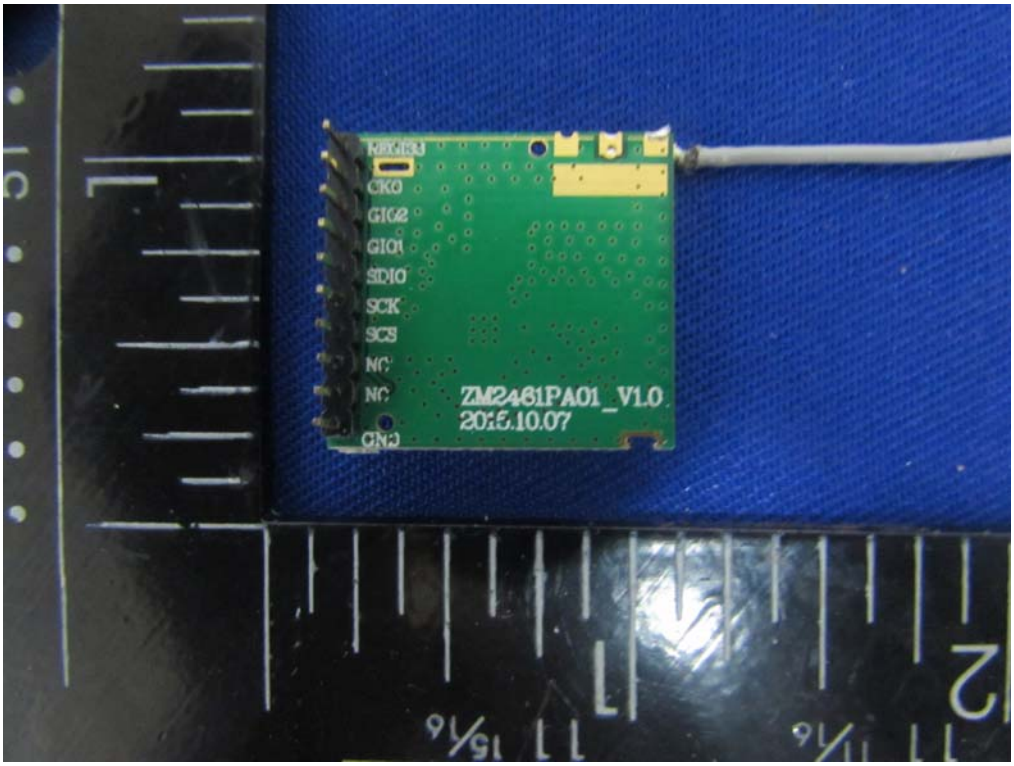




Antenna



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SDIO
SCK
SCS
NC
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GND
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2015.10.07