

Report No. : E86.12.361.010

This Test Report is Prepared for

ShenZhen Fujikam Industry Development Co., Ltd

6F.West,1st Building,Innovative Industrial Park,Nanshan Cloud Valley,No.1183,Liuxian
Avenue,Nanshan District,SZ,CN.

Product Name: Cloud Camera

Model No.: FI-320W,FI-320WP,FI-321,FI321N,FI-322

Brand Name: FUJIKAM

Applicable standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result: The FCC testing has been performed on the submitted samples and found in compliance
with ANSI 63.4-2003 and FCC Part15.247

Prepared by :



Shirley Xu Assistant

Reviewer :



Mary Huang/Supervisor

Approved & Authorized Signer :



Mike Wang/ Manager

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Test Report Conclusion

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1. General Information

1.1 Details of Applicant

Name: ShenZhen Fujikam Industry Development Co., Ltd

Address: 6F.West,1st Building,Innovative Industrial Park,Nanshan Cloud Valley,No.1183,Liuxian Avenue,Nanshan District,SZ,CN.

1.2 Application Details

Date of Receipt of Application: Nov 30, 2012

Date of Receipt of Test Item: Nov 30, 2012

Date of Test: Nov 30, 2012~ Dec 22, 2012

1.3 General Description of EUT

Product Name:	Cloud Camera
Model No.:	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Brand Name;	FUJIKAM
Operation Frequency:	2422-2452 MHz for 802.11n HT40 and 2412-2462MHz for 802.11b/g, 802.11n HT20
Channel number:	IEEE 802.11b/g/n (HT20) : 11 Channels IEEE 802.11n HT40 : 7 Channels
Channel separation:	IEEE 802.11b/g/n (HT20/40) : 5MHz
Modulation Technology:	IEEE 802.11b : DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)
Air Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48,36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n HT20 : 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40 : 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps
Antenna Type:	Ceramic antennas
Antenna gain:	3.5dBi
Power supply:	DC5V
Remark:	--
FCC ID:	RU6-32IPC

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2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	E4408B	MY46185649	2012-10-31	2013-10-30
Receiver	RS	ESCI	100492	2012-10-31	2013-10-30
Receiver	RS	ESCI	100202	2012-10-31	2013-10-30
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2012-02-12	2013-02-11
LISN	SCHWARZBECK	NSLK 8126	8126466	2012-10-31	2013-10-30
Loop Antenna	RS	FMZB1516	1516131	2012-02-12	2013-02-11
ETS Horn Antenna	ETS	3160	SEL0076	2012-02-12	2013-02-11
Cable	Resenberger	N/A	N0.1	2012-10-31	2013-10-30
Cable	SCHWARZBECK	N/A	N0.2	2012-10-31	2013-10-30
Cable	SCHWARZBECK	N/A	N0.3	2012-10-31	2013-10-30
Power Meter	Anritsu	K240C	020346	2012-10-31	2013-10-30
Horn Antenna	EMCO	3115	640201028-06	2012-02-12	2013-02-11
9*6*6 Anechoic	ETS-LINDGREN	--	SEL0017	2012-10-31	2013-10-30
Pre-amplifier	Schwarebeck	BBV9743	9743-019	2012-10-31	2013-10-30
Pre-amplifier	KUAITE	AFS33-18002 650-30-8P-44	SEL0080	2012-10-31	2013-10-30

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3. DESCRIPTION OF TEST MODES

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 54Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 65Mbps data rate (worst case) were chosen for full testing

IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.



3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 Test Lab Details

Name: Shenzhen Certification Technology Service Co., Ltd

Address: 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China.

FCC Registration Number: 197647

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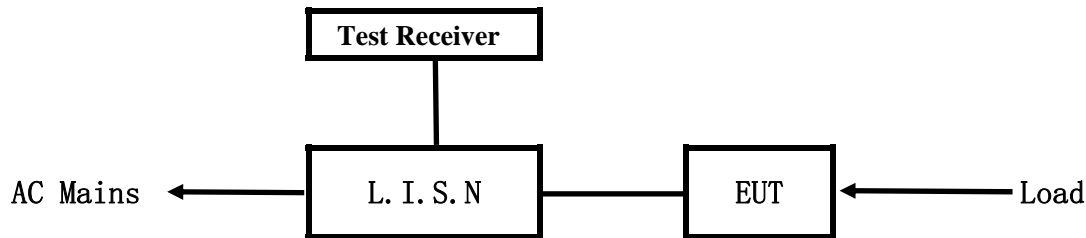
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



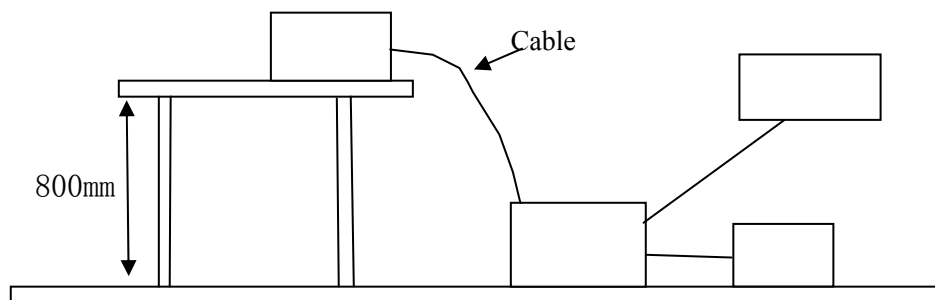
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Cloud Camera	ShenZhen Fujikam Industry Development Co., Ltd	FI-320W,FI-320WP,FI-321,FI321N,FI-322	RU6-32IPC

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207.

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

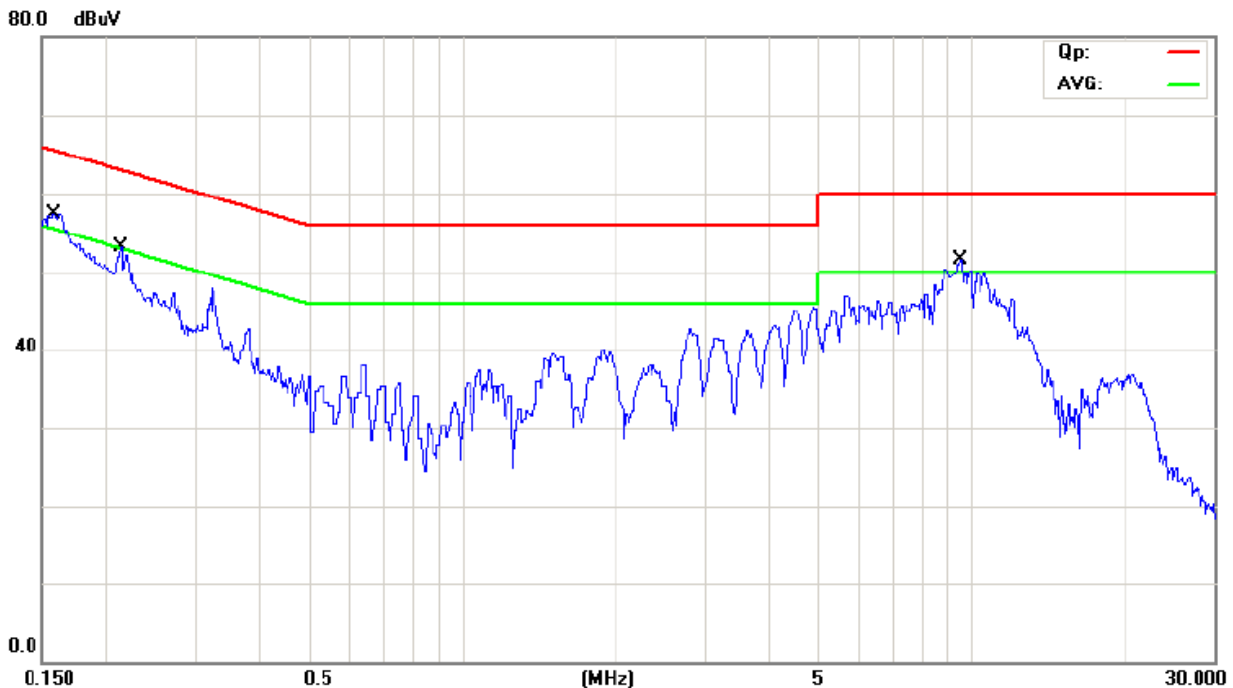
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.159	Live	44.91	33.71	65.51	55.51
0.213	Live	42.37	34.94	63.07	53.07
9.509	Live	43.11	36.31	60.00	50.00

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

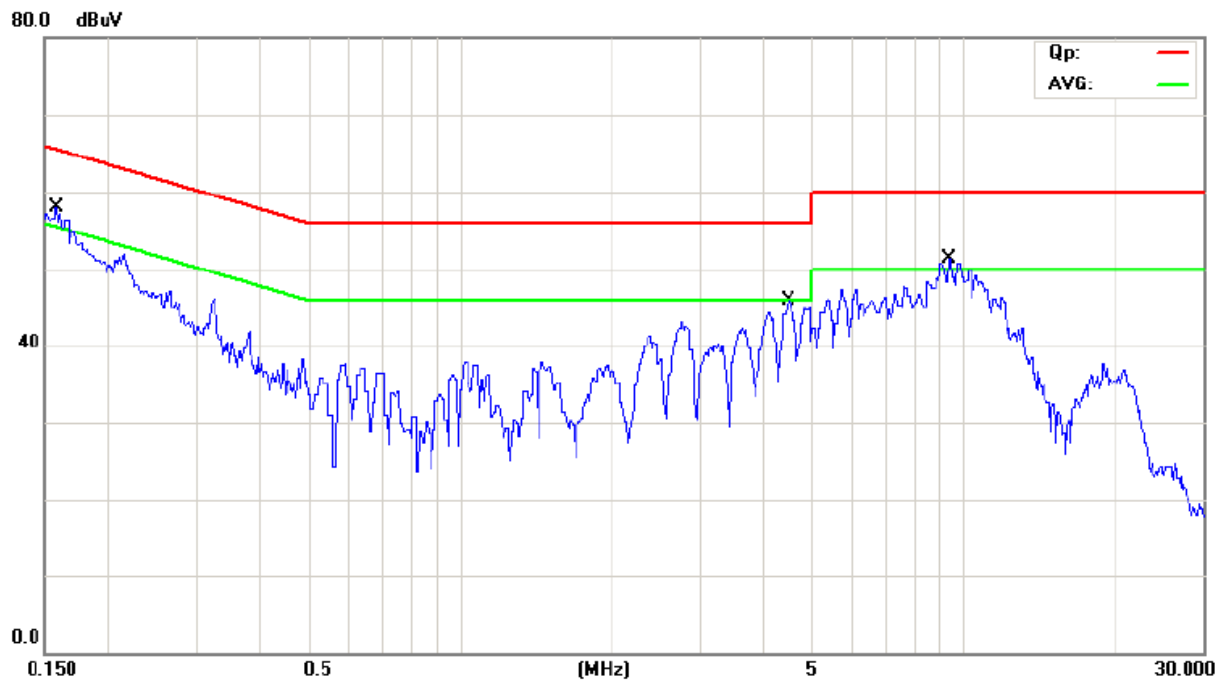
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
4.491	Neutral	41.40	35.10	56.00	46.00
0.157	Neutral	44.11	31.51	65.59	55.59
9.362	Neutral	44.67	31.97	60.00	50.00

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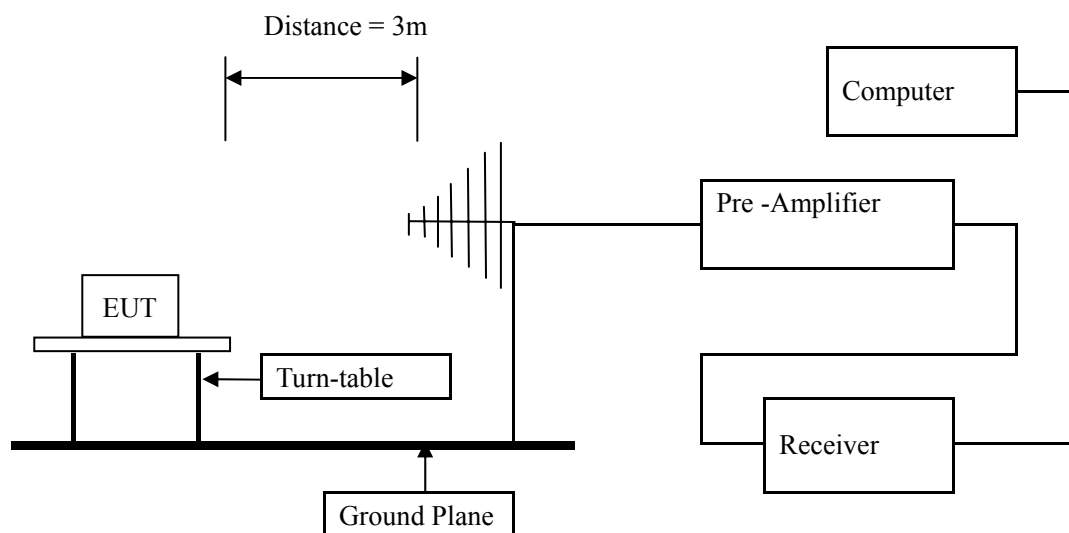


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
381.625	38.93	H	46.00
810.850	42.47	H	46.00
325.850	33.13	V	46.00
434.975	34.93	V	46.00
757.500	38.66	V	46.00
810.850	39.98	V	46.00

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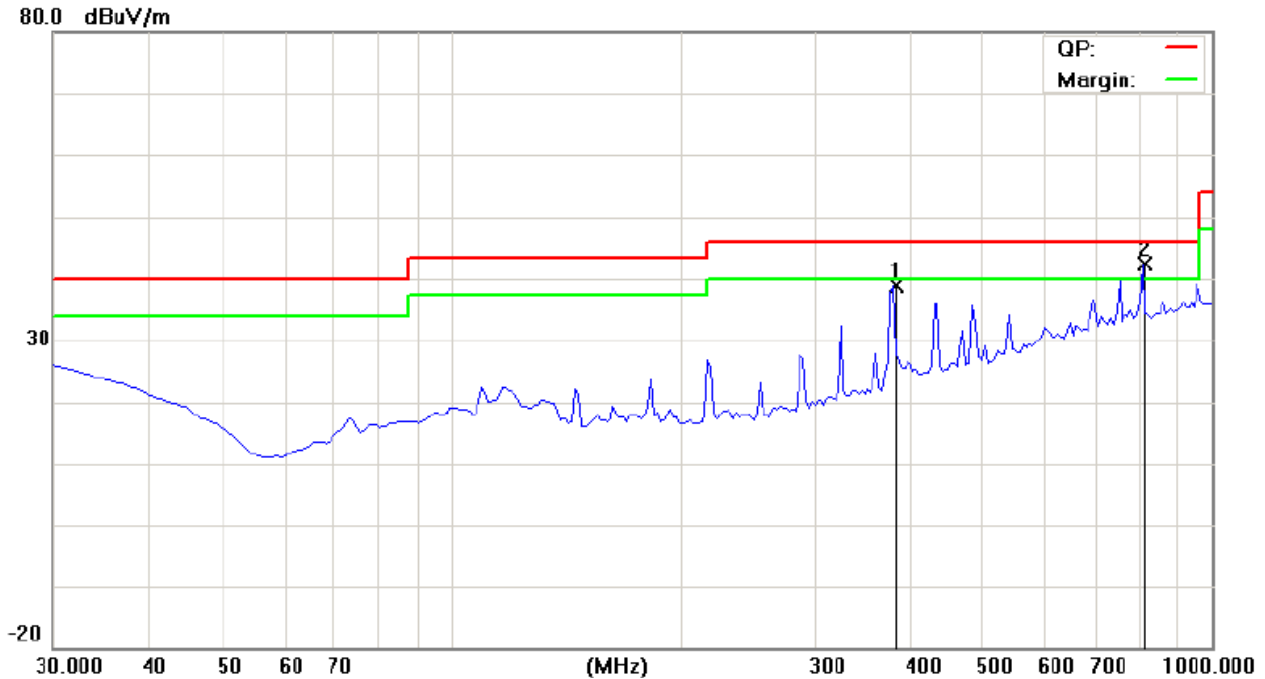
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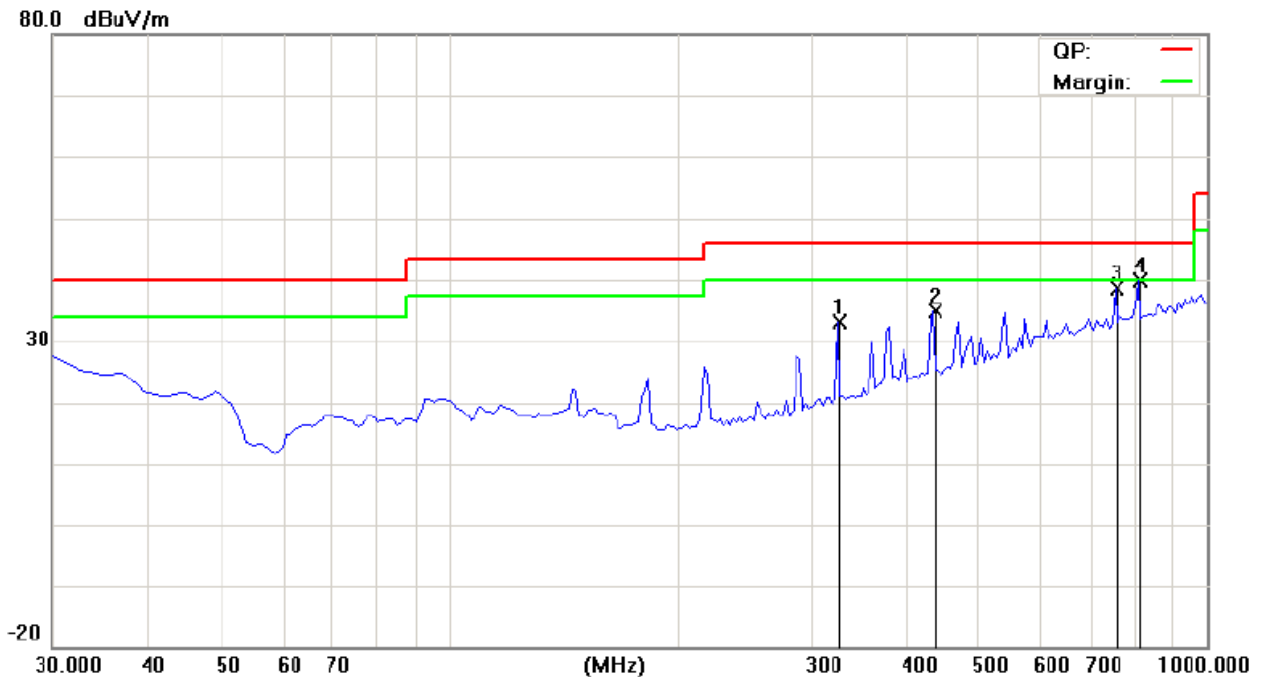
Test Figure:

H



Test Figure:

V



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Operation Mode: Transmitting & Receiving under CH01 for 11g at 54Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	92.39 (PK)	H	Fundamental Frequency
2412.00	93.19 (PK)	V	
4824.00	45.28 (PK)	H	74(Peak)/ 54(AV)
4824.00	44.89 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11g mode 54Mbps

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Operation Mode: Transmitting & Receiving under CH06 for 11g at 54Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	90.47 (PK)	H	Fundamental Frequency
2437.00	92.44 (PK)	V	
4874.00	44.97 (PK)	H	74(Peak)/ 54(AV)
4874.00	46.70 (PK)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11g mode 54 Mbps

Operation Mode: Transmitting & Receiving under CH11 for 11g at 54Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	91.43 (PK)	H	Fundamental Frequency
2462.00	91.86 (PK)	V	
4924	--	H	74(Peak)/ 54(AV)
4924	45.64 (PK)	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11g mode at 54 Mbps

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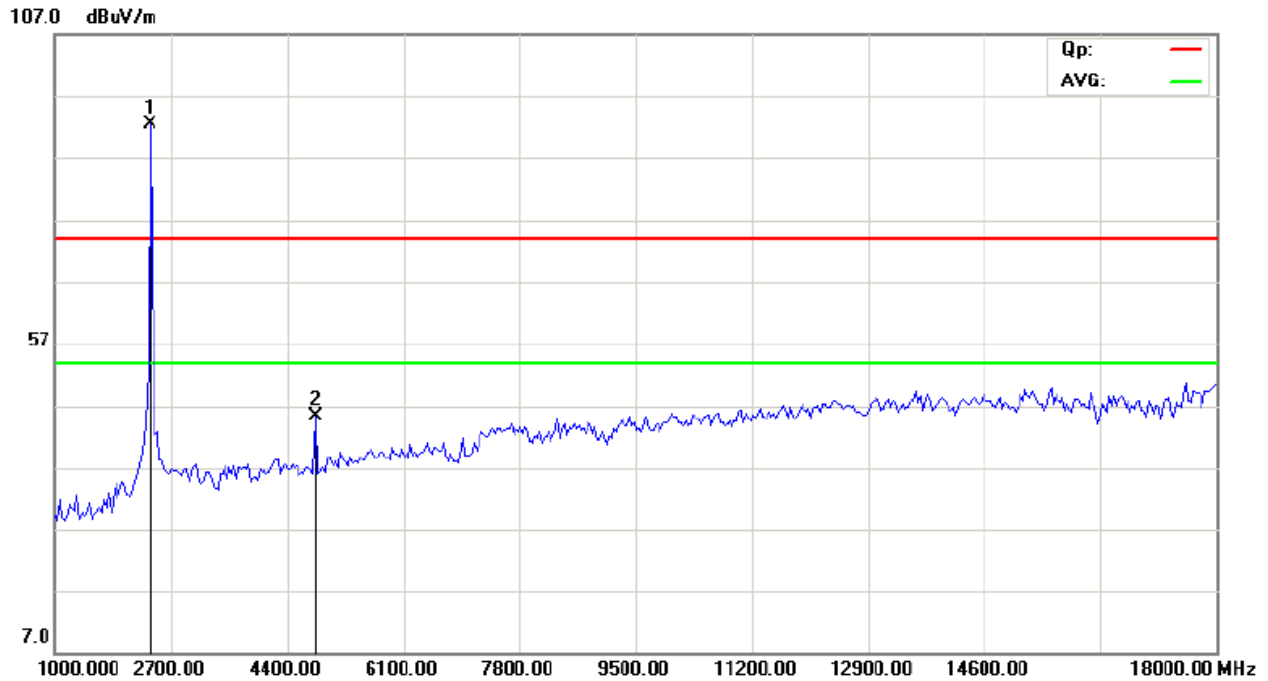
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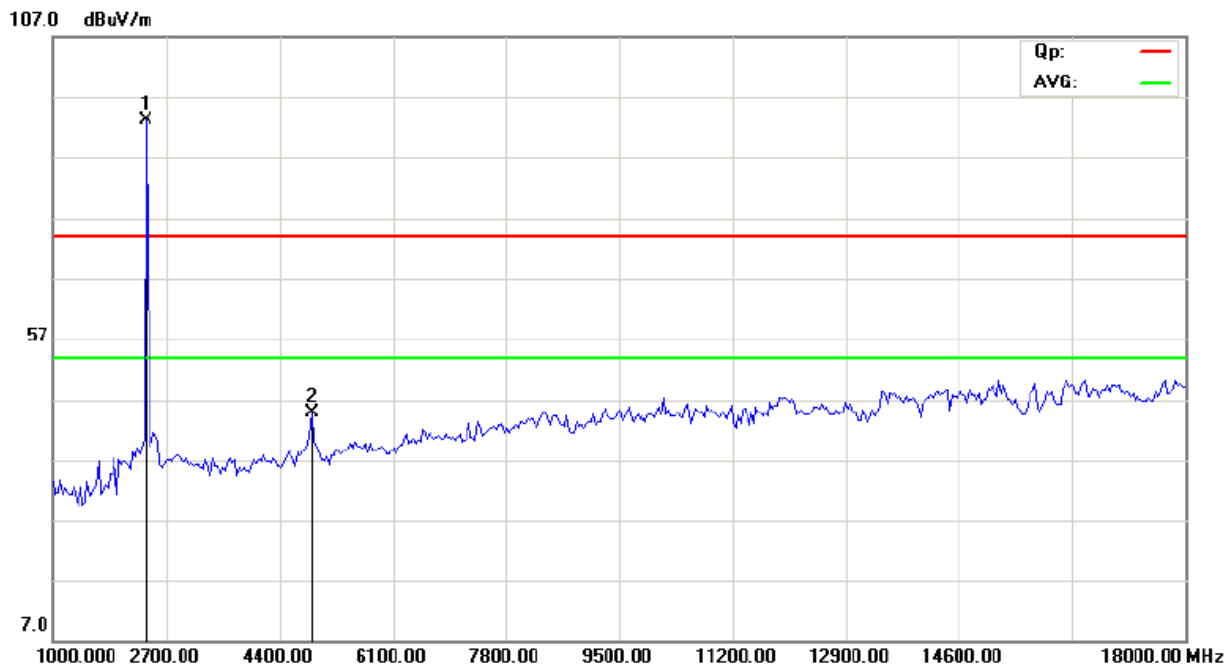


Please refer to the following test plots for details:

CH01 for 11g at 54Mbps: Horizontal



CH01 for 11g at 54Mbps: Vertical



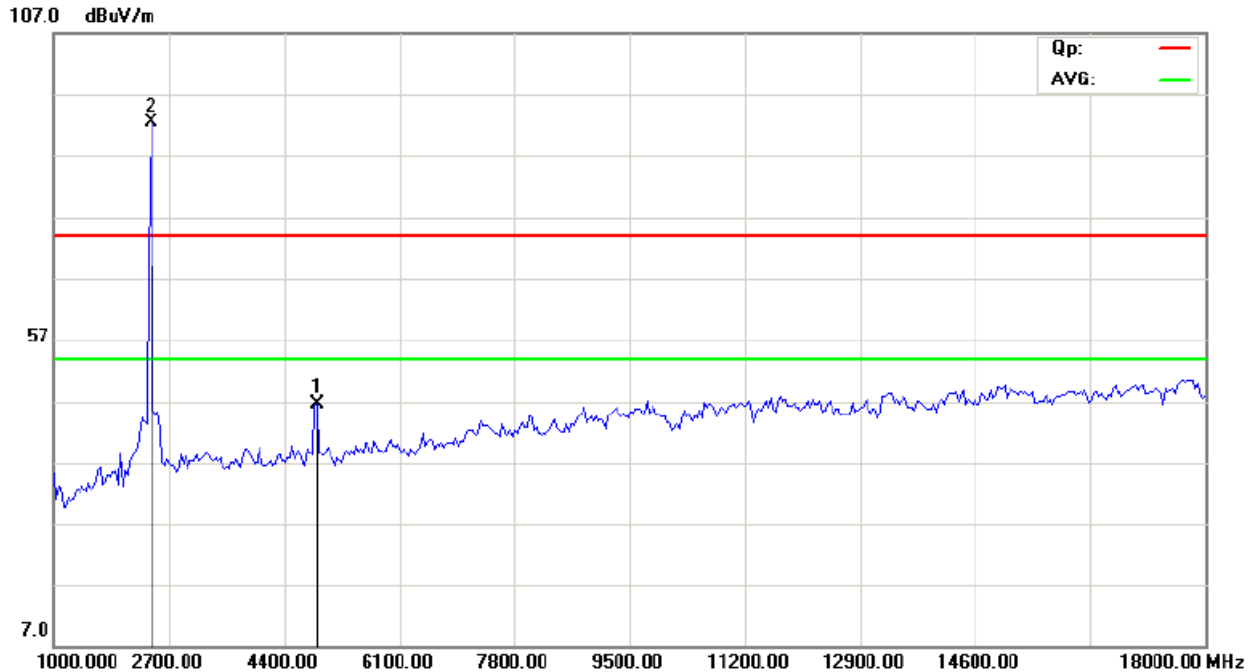
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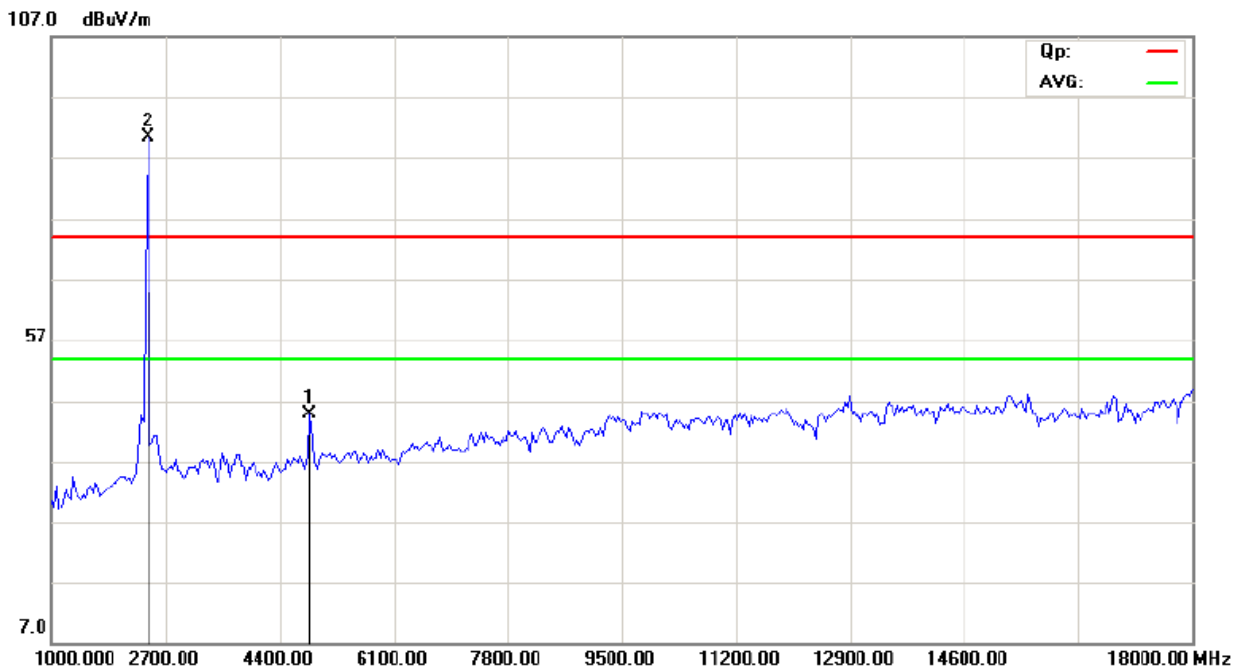
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CH06 for 11g at 54Mbps: Vertical



CH06 for 11g at 54Mbps: Horizontal



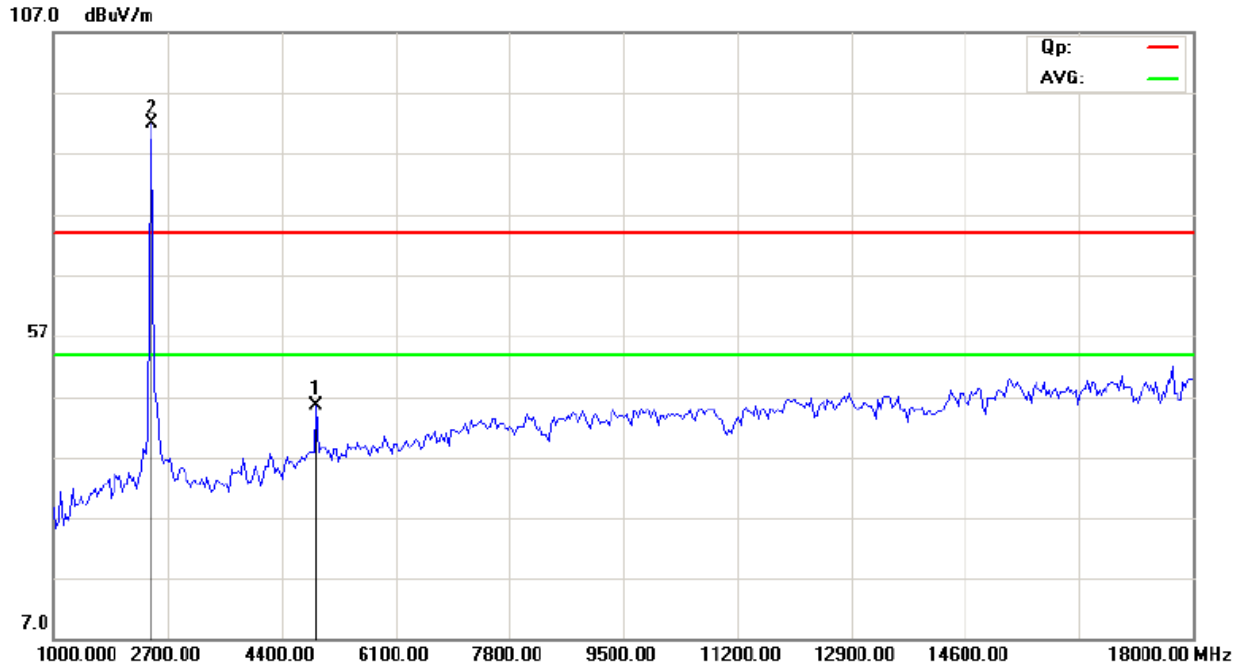
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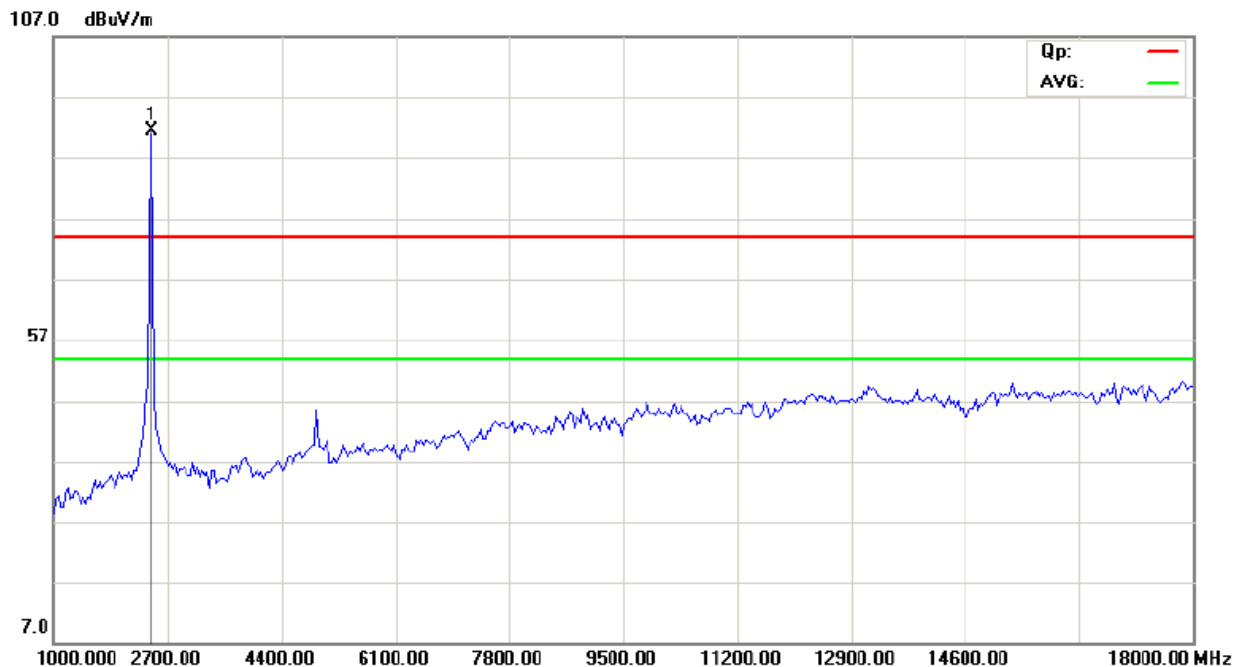
In the event of the improper use of the report. The Greatwall International Approval Co., Limited reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



CH11 for 11g at 54Mbps: Vertical



CH11 for 11g at 54Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting & Receiving under CH01 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	92.26 (PK)	H	Fundamental Frequency
2412.00	93.76 (PK)	V	
4824.00	43.82 (PK)	H	74(Peak)/ 54(AV)
4824.00	44.59 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11b mode 11Mbps

Operation Mode: Transmitting & Receiving under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	90.63 (PK)	H	Fundamental Frequency
2437.00	94.15 (PK)	V	
4874.00	42.51 (PK)	H	74(Peak)/ 54(AV)
4874.00	48.00 (PK)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11b mode 11Mbps

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Operation Mode: Transmitting & Receiving under CH11 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	94.24 (PK)	H	Fundamental Frequency
2462.00	93.45 (PK)	V	
4924	47.29 (PK)	H	74(Peak)/ 54(AV)
4924	47.63 (PK)	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11b mode at 11Mbps

The report refers only to the sample tested and does not apply to the bulk.

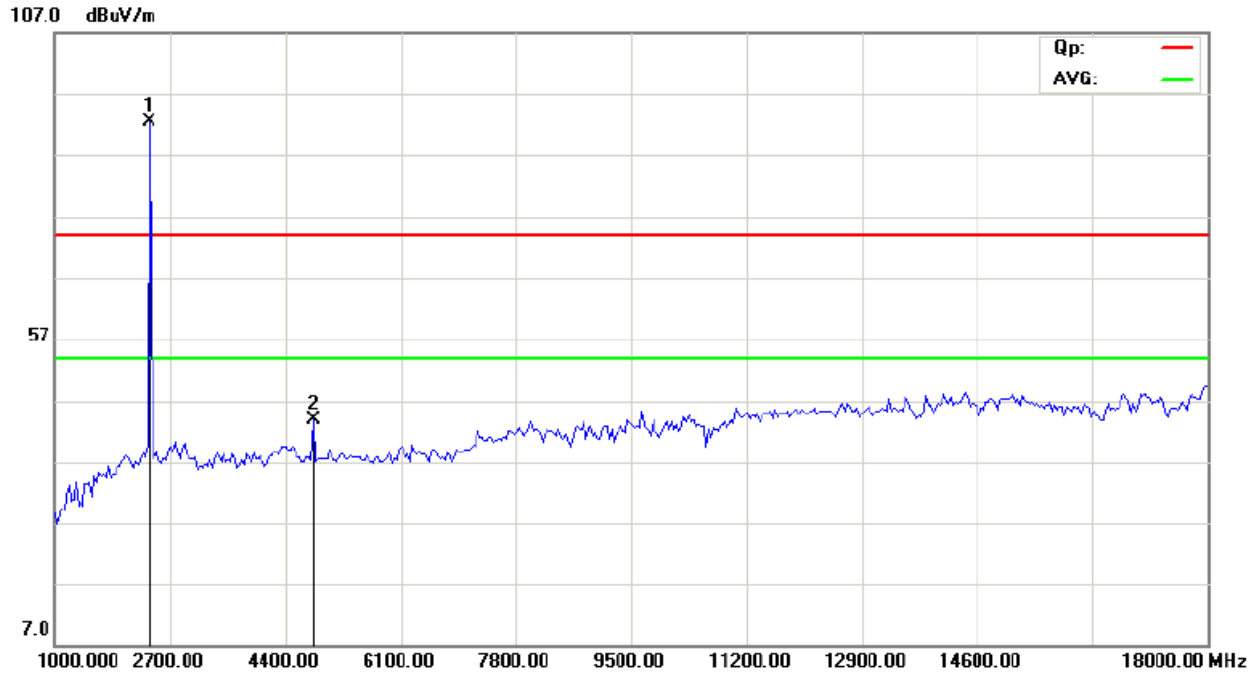
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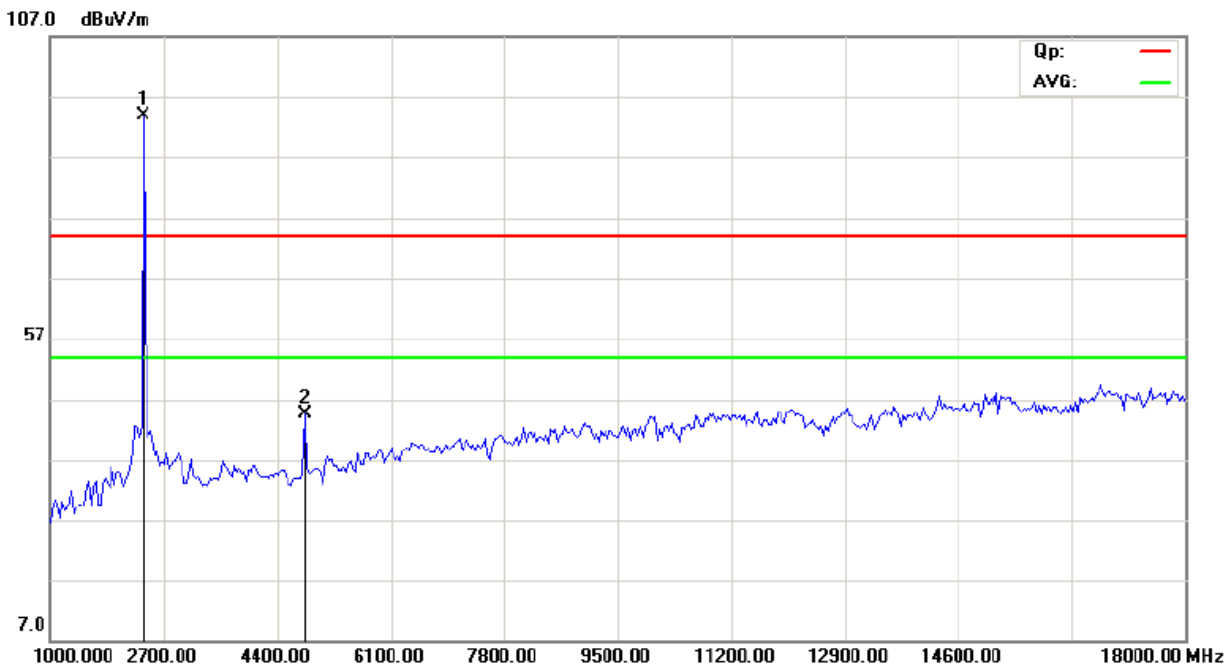


Please refer to the following test plots for details:

CH01 for 11b at 11Mbps: Horizontal



CH01 for 11b at 11Mbps: Vertical



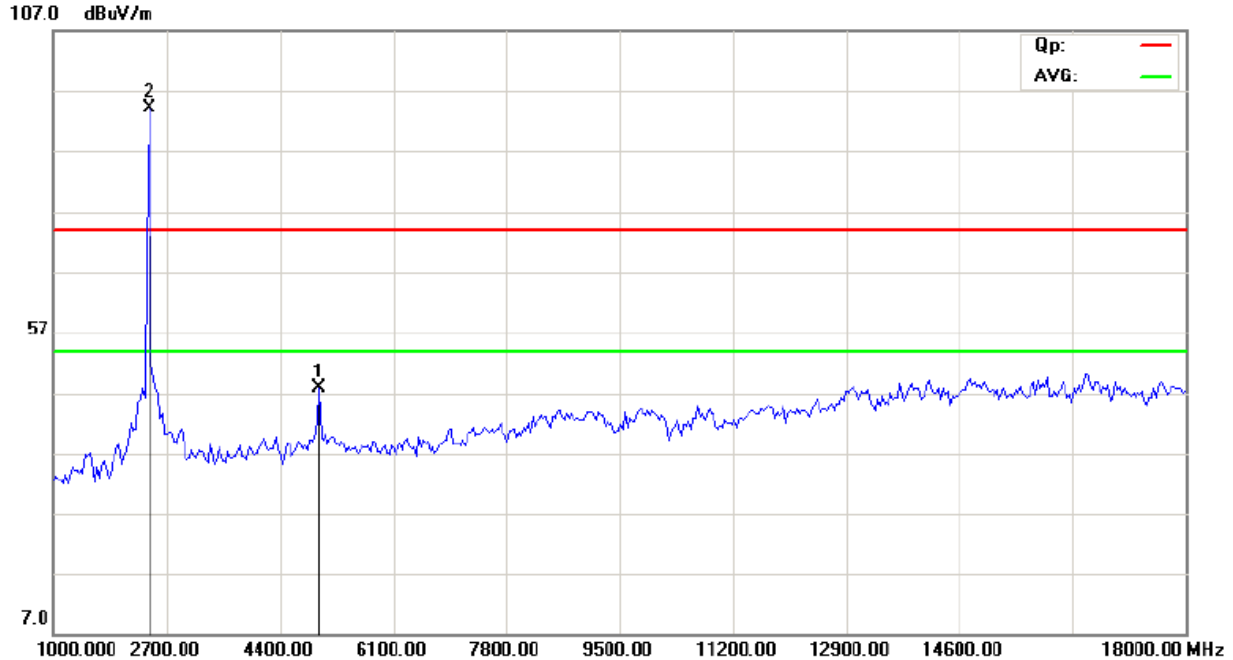
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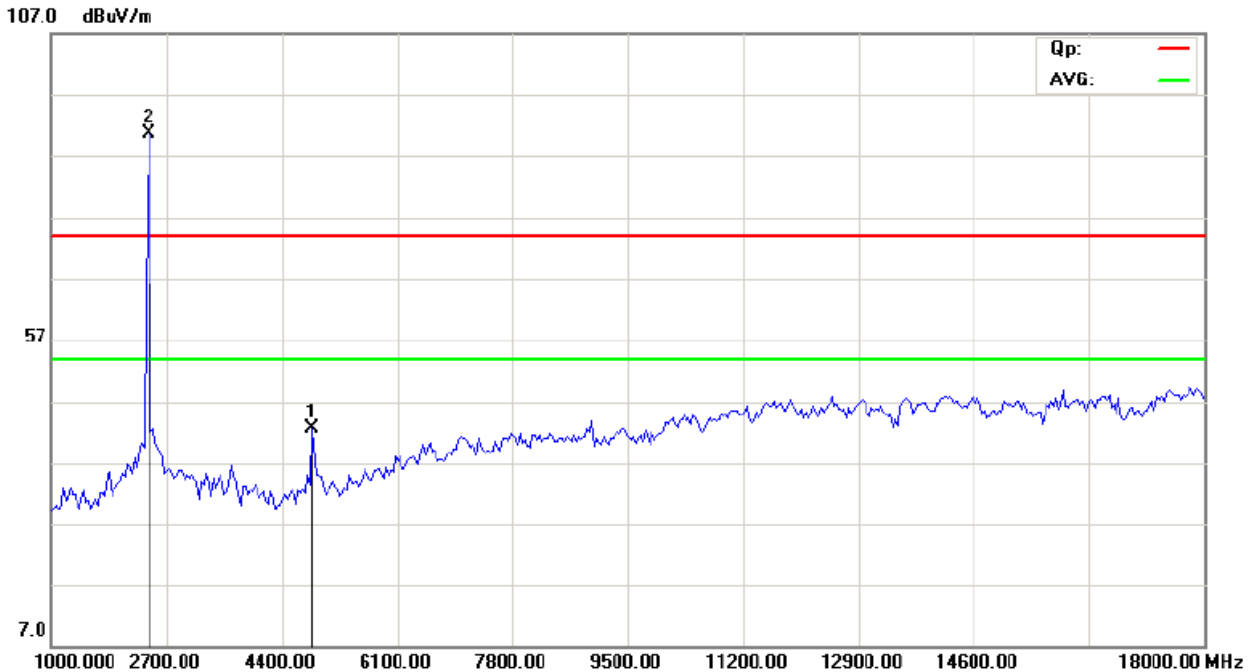
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CH06 for 11b at 11Mbps: Vertical



CH06 for 11b at 11Mbps: Horizontal



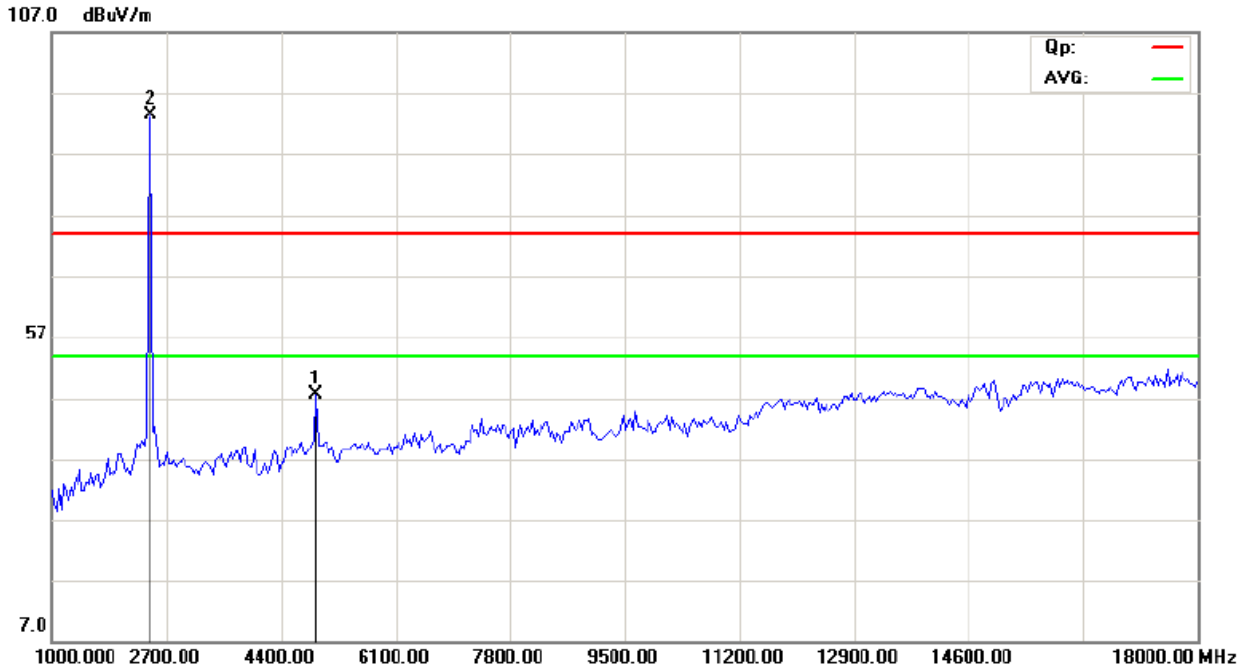
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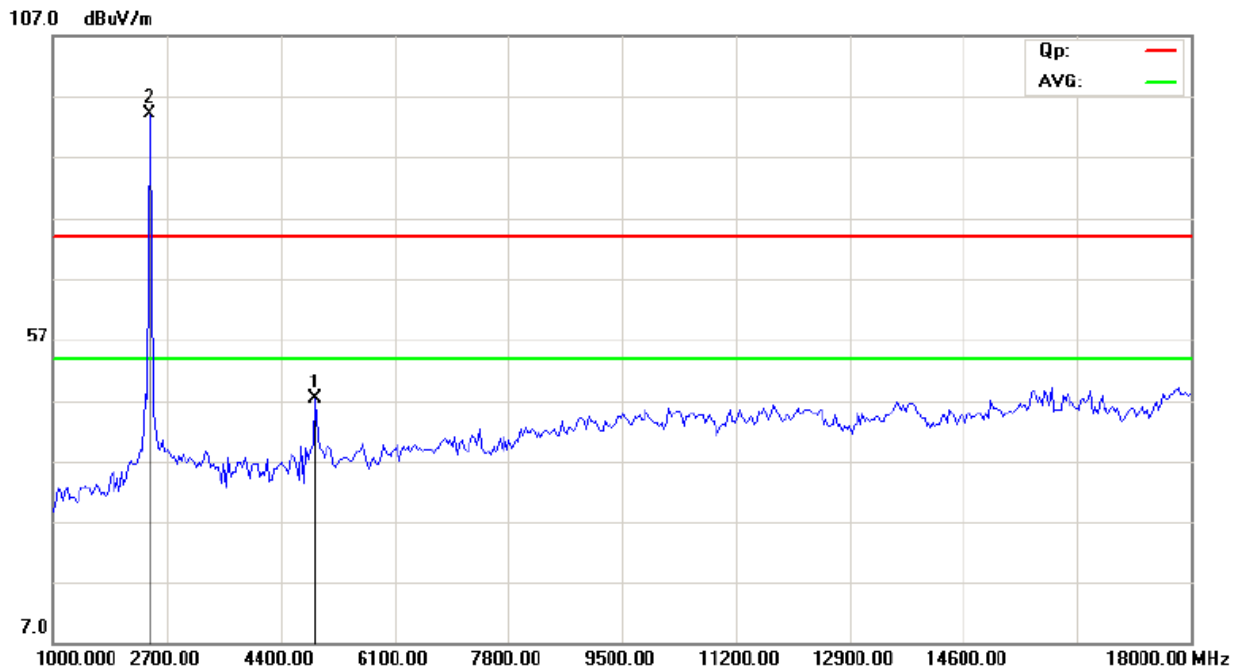
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CH11 for 11b at 11Mbps: Vertical



CH11 for 11b at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting & Receiving under CH01 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2412.00	90.86 (PK)	H	Fundamental Frequency
2412.00	91.92 (PK)	V	
4824.00	40.85 (PK)	H	74(Peak)/ 54(AV)
4824.00	44.09 (PK)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11n (HT20) mode 65Mbps

Operation Mode: Transmitting & Receiving under CH06 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	89.55 (PK)	H	Fundamental Frequency
2437.00	91.01 (PK)	V	
4874.00	--	H	74(Peak)/ 54(AV)
4874.00	41.88 (PK)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11n (HT20) mode 65Mbps

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Operation Mode: Transmitting & Receiving under CH11 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2462.00	91.12 (PK)	H	Fundamental Frequency
2462.00	89.31 (PK)	V	
4924	--	H	74(Peak)/ 54(AV)
4924	46.14 (PK)	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11n (HT20) mode 65Mbps

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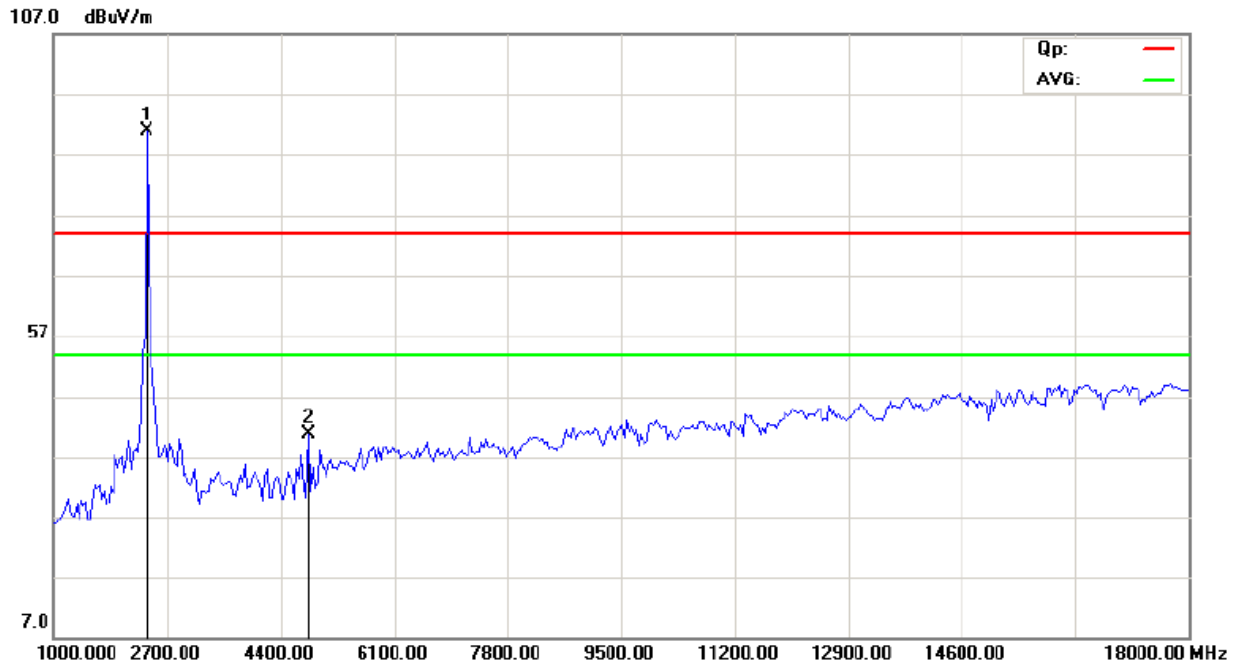
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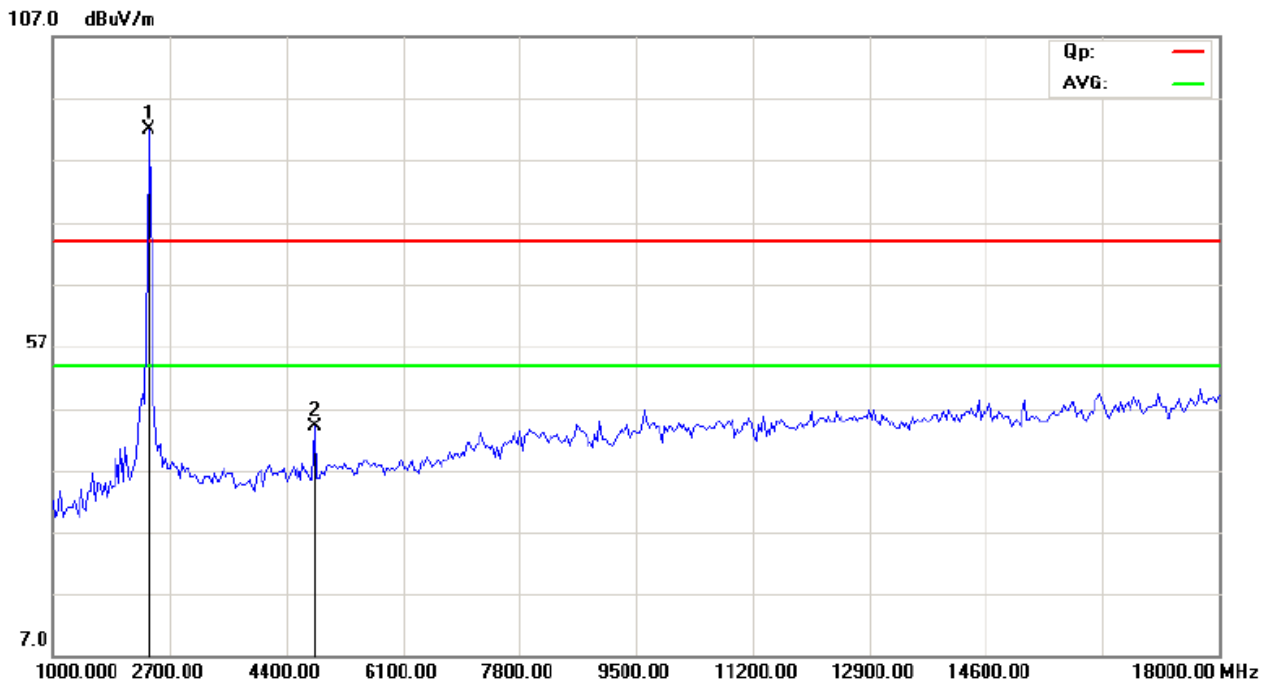


Please refer to the following test plots for details:

CH01 for 11n HT20 at 65Mbps: Horizontal



CH01 for 11n HT20 at 65Mbps: Vertical



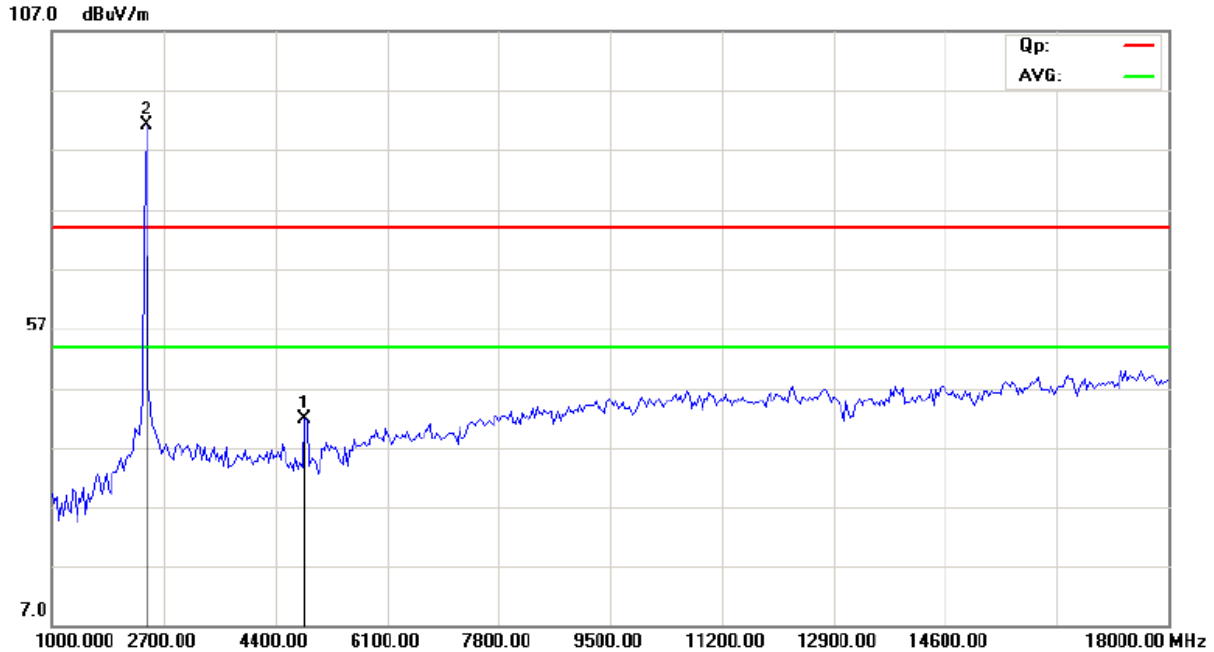
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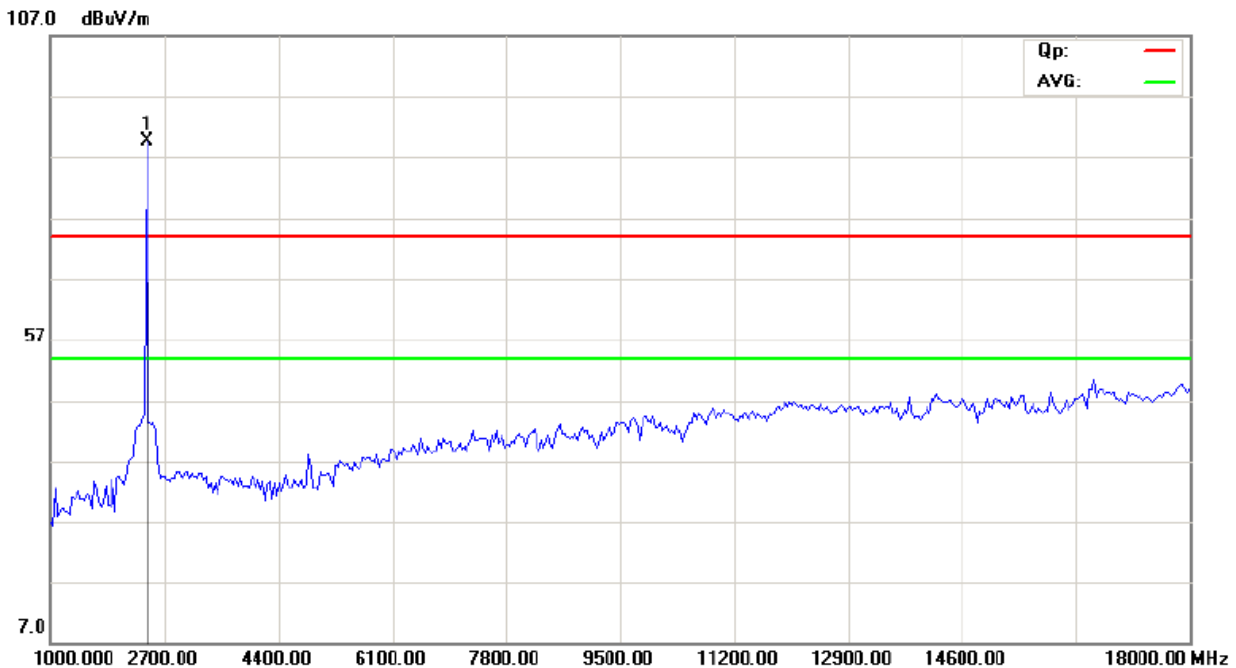
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CH06 for 11n HT20 at 65Mbps: Vertical



CH06 for 11n HT20 at 65Mbps: Horizontal



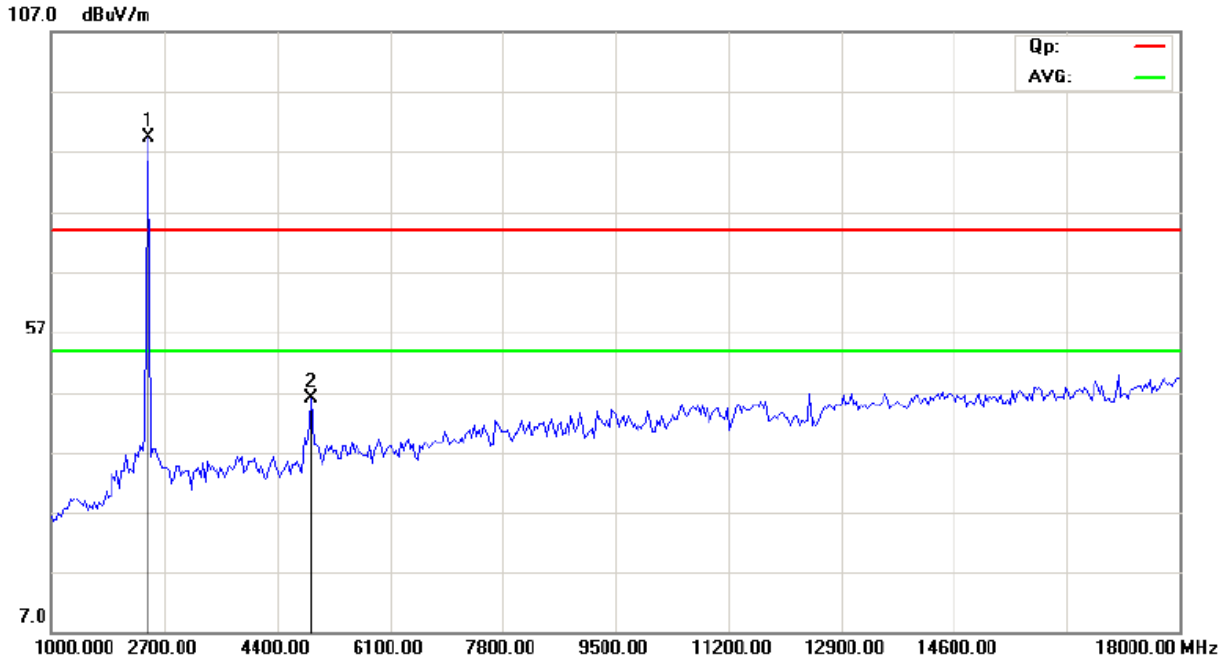
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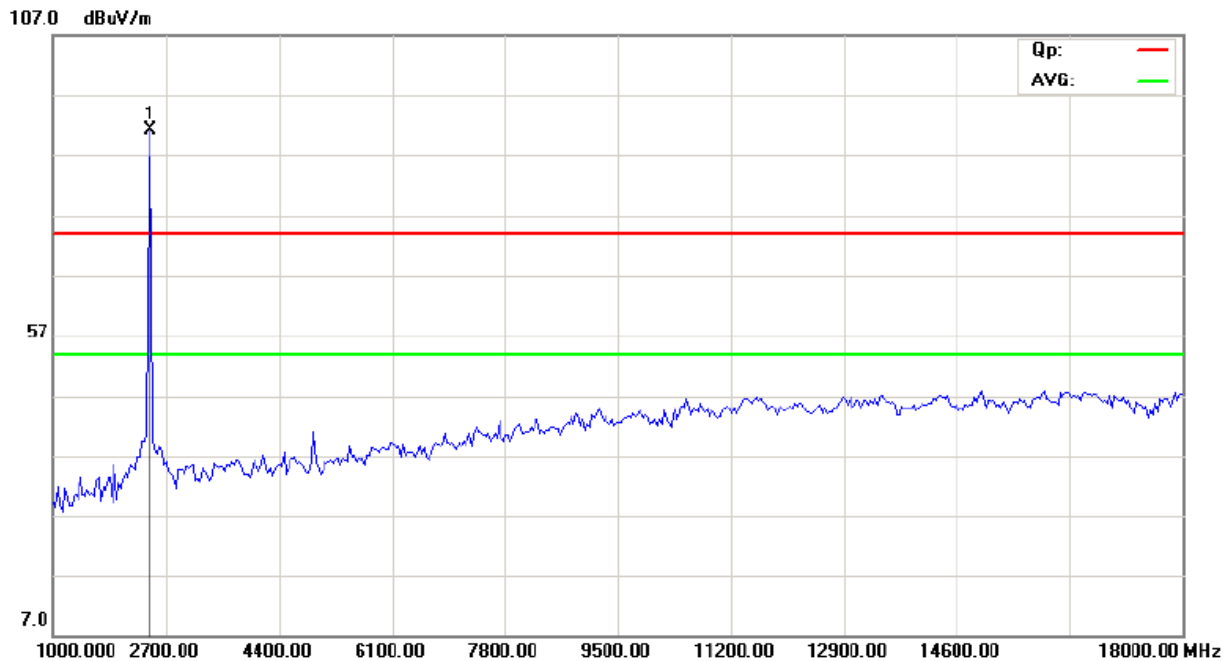
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CH11 for 11n HT20 at 65Mbps: Vertical



CH11 for 11n HT20 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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Operation Mode: Transmitting & Receiving under CH01 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2422.00	88.51 (PK)	H	Fundamental Frequency
2422.00	88.94 (PK)	V	
4844.00	44.01 (PK)	H	74(Peak)/ 54(AV)
4844.00	44.77 (PK)	V	74(Peak)/ 54(AV)
7266.00	--	H/V	74(Peak)/ 54(AV)
9688.00	--	H/V	74(Peak)/ 54(AV)
12110	--	H/V	74(Peak)/ 54(AV)
14532	--	H/V	74(Peak)/ 54(AV)
16954	--	H/V	74(Peak)/ 54(AV)
19376	--	H/V	74(Peak)/ 54(AV)
21798	--	H/V	74(Peak)/ 54(AV)
24220	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11n (HT40) mode 65Mbps

Operation Mode: Transmitting & Receiving under CH04 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2437.00	89.22 (PK)	H	Fundamental Frequency
2437.00	90.65 (PK)	V	
4874.00	45.68 (PK)	H	74(Peak)/ 54(AV)
4874.00	43.03 (PK)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured
3. For 802.11n (HT40) mode 65Mbps

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Operation Mode: Transmitting & Receiving under CH7 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
2452.00	91.10 (PK)	H	Fundamental Frequency
2452.00	90.56 (PK)	V	
4904	45.23 (PK)	H	74(Peak)/ 54(AV)
4904	44.58 (PK)	V	74(Peak)/ 54(AV)
7356	--	H/V	74(Peak)/ 54(AV)
9808	--	H/V	74(Peak)/ 54(AV)
12260	--	H/V	74(Peak)/ 54(AV)
14712	--	H/V	74(Peak)/ 54(AV)
17164	--	H/V	74(Peak)/ 54(AV)
19616	--	H/V	74(Peak)/ 54(AV)
22068	--	H/V	74(Peak)/ 54(AV)
24520	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

3. For 802.11n (HT40) mode 65Mbps

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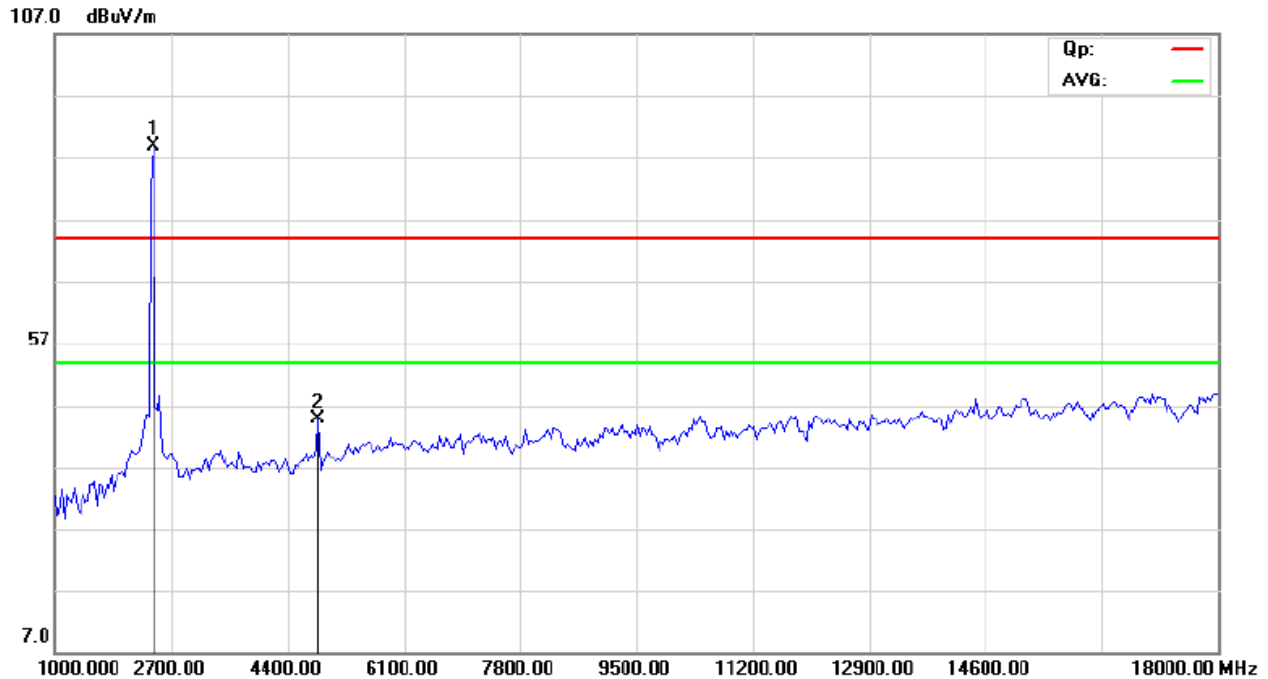
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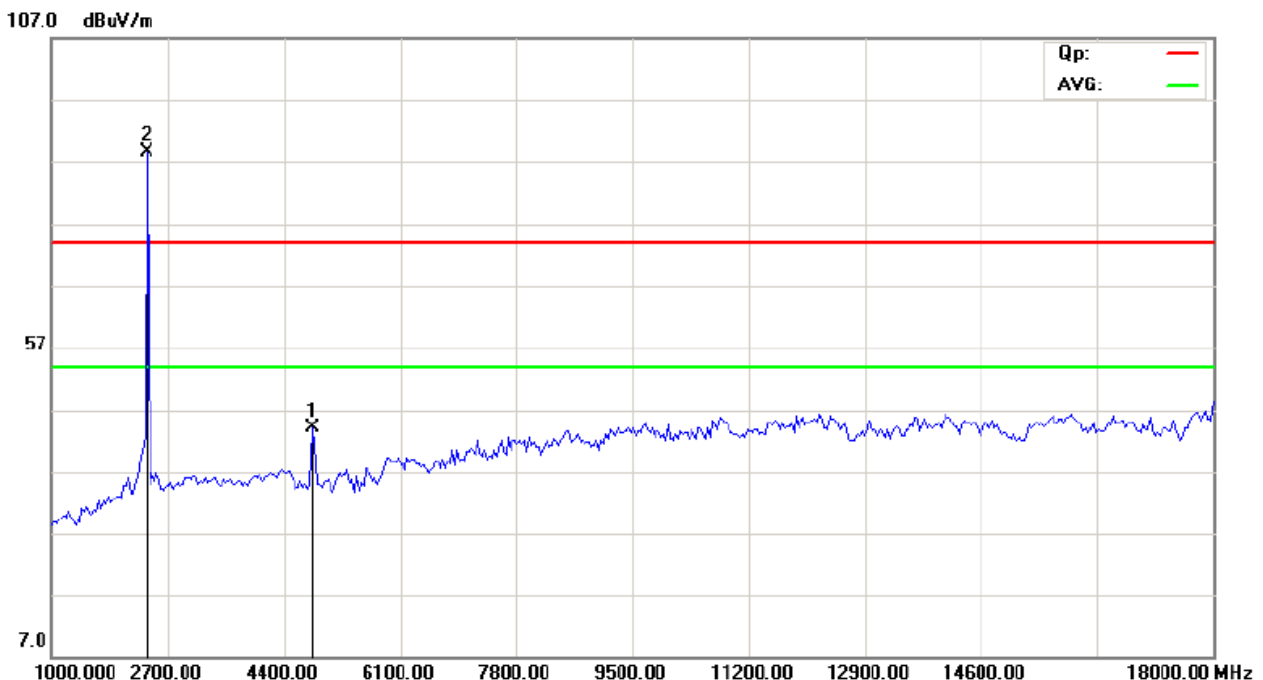


Please refer to the following test plots for details:

CH01 for 11n HT40 at 65Mbps: Vertical



CH01 for 11n HT40 at 65Mbps: Horizontal



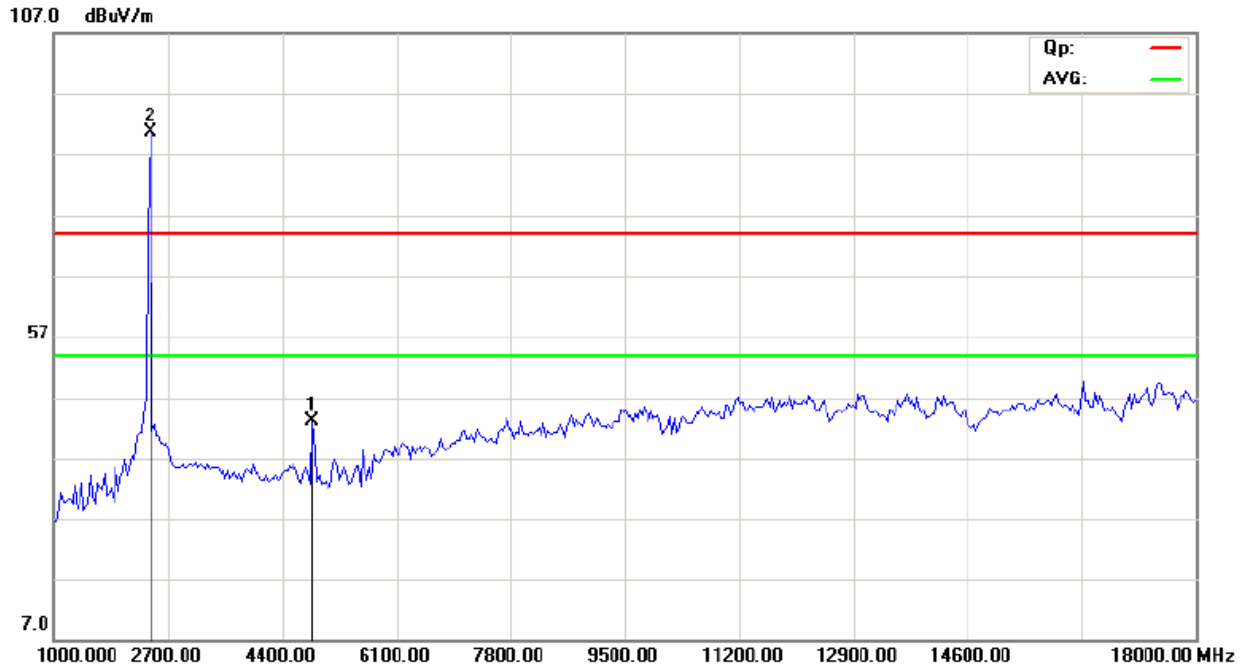
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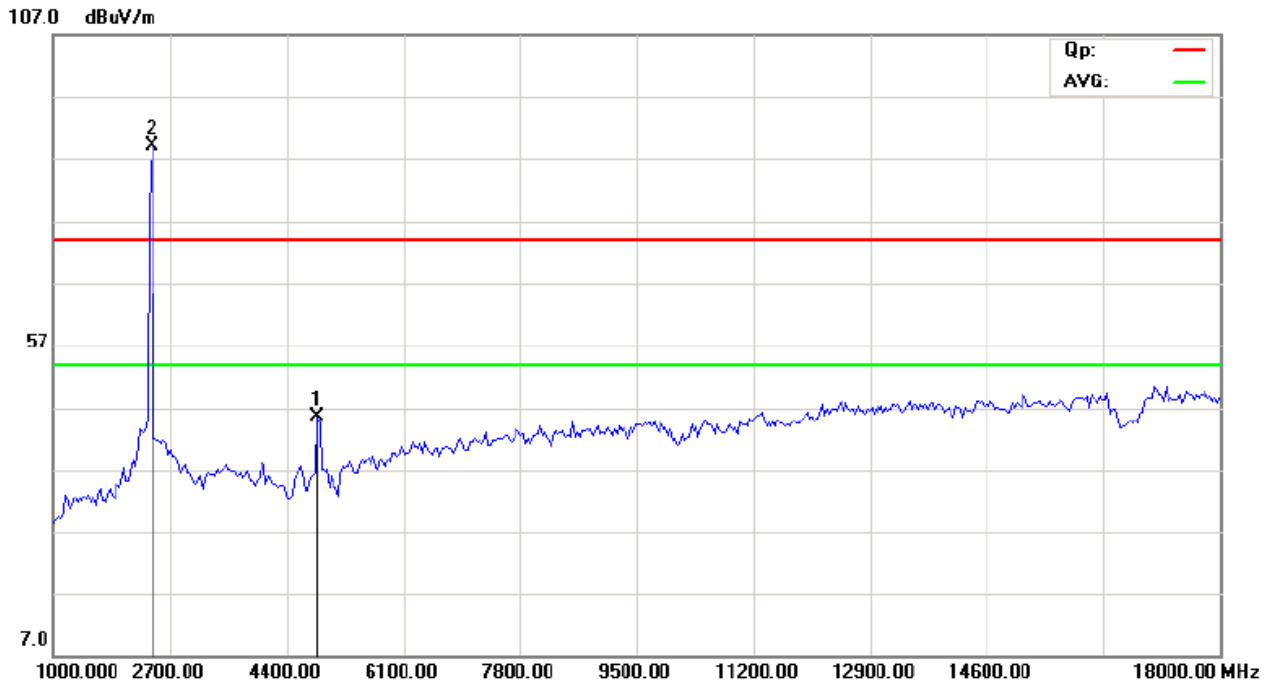
In the event of the improper use of the report. The Greatwall International Approval Co., Limited reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



CH04 for 11n HT40 at 65Mbps: Vertical



CH04 for 11n HT40 at 65Mbps: Horizontal



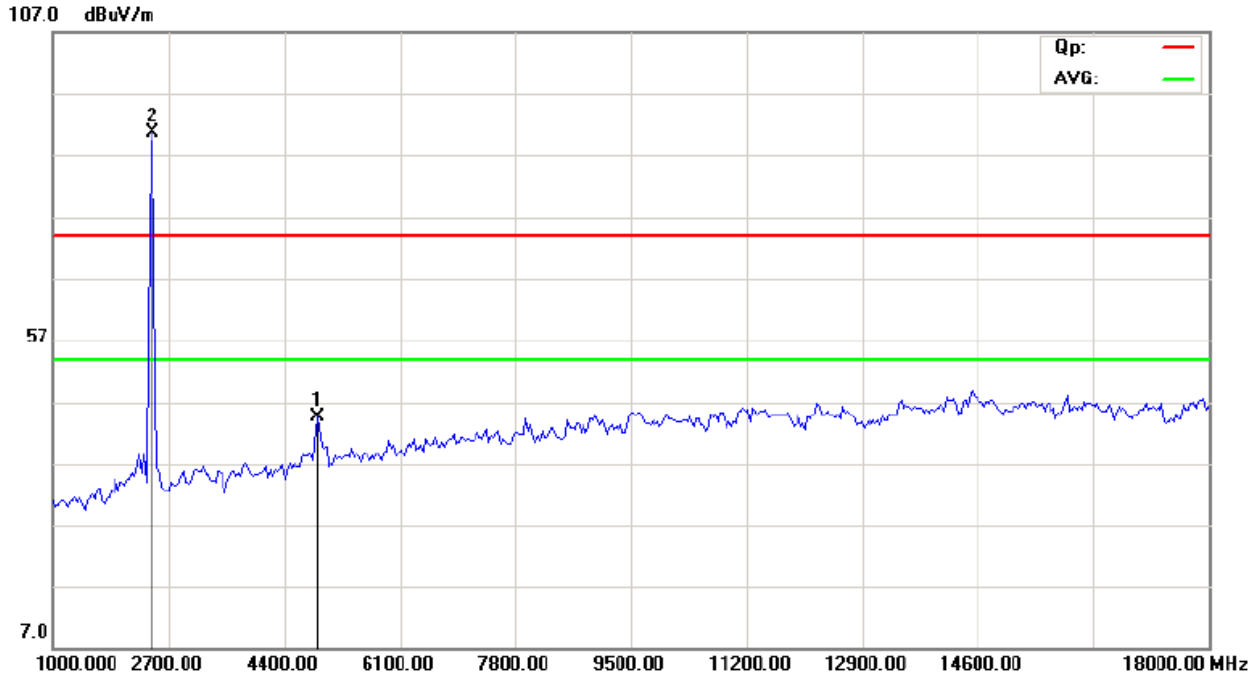
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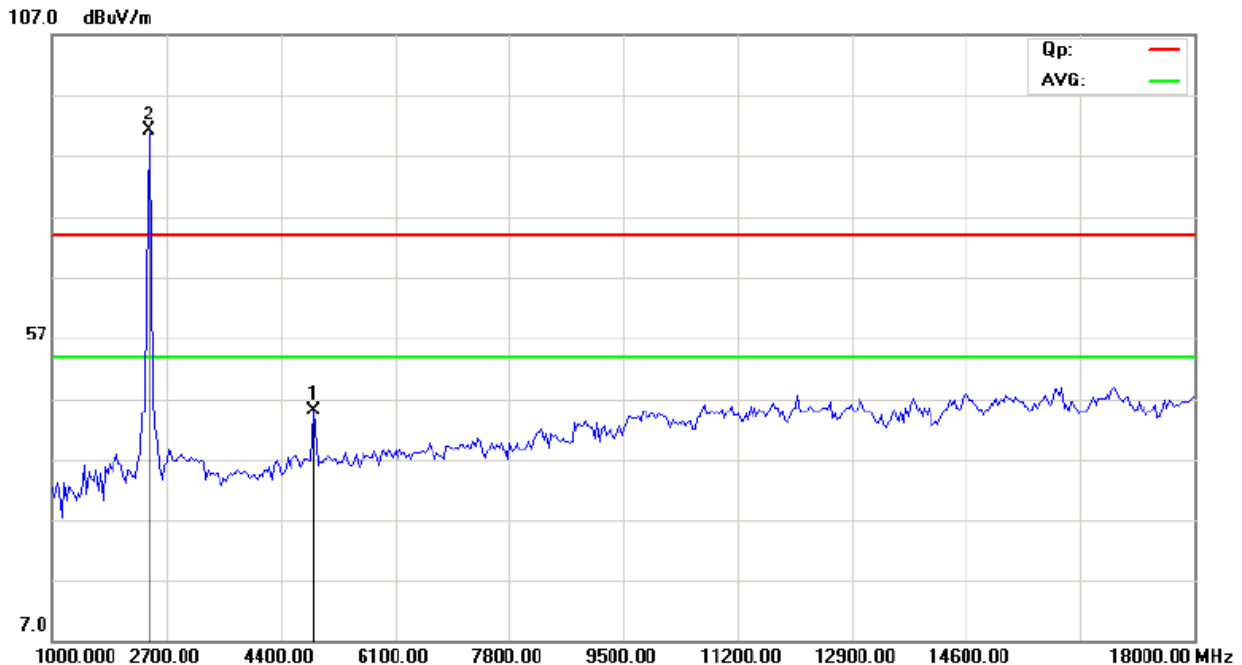
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CH07 for 11n HT40 at 65Mbps: Vertical



CH07 for 11n HT40 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

The report refers only to the sample tested and does not apply to the bulk.

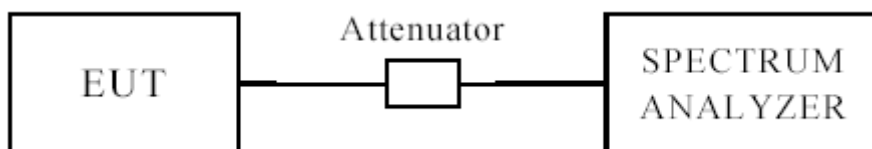
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Occupied Bandwidth

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322		
Mode	802.11b	Input Voltage	AC 120V		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.08	0.5	Pass
6	2437	1	10.08	0.5	Pass
11	2462	1	10.08	0.5	Pass
1	2412	11	9.42	0.5	Pass
6	2437	11	9.60	0.5	Pass
11	2462	11	9.60	0.5	Pass

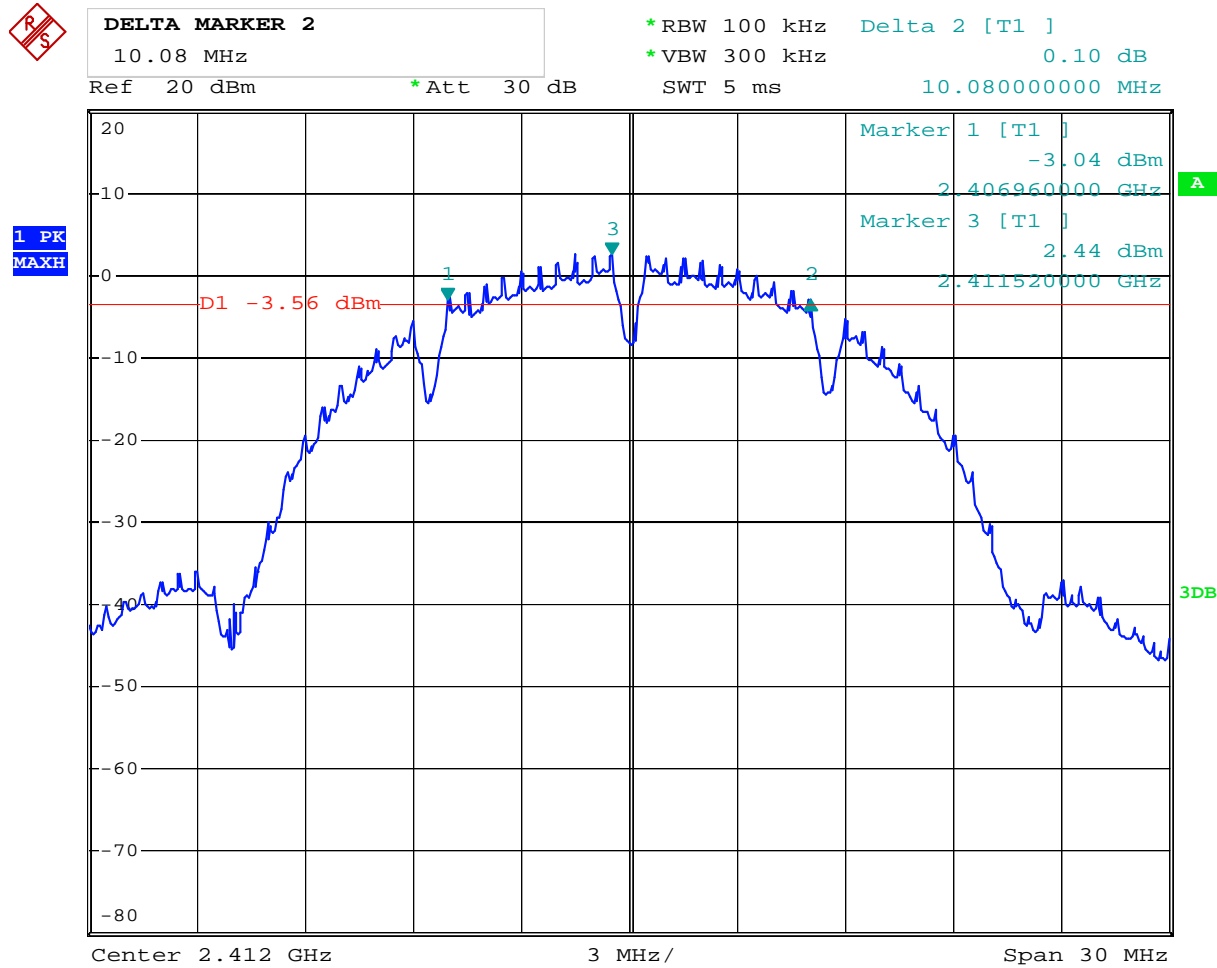
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1. 802.11b at 1Mbps of CH01



Date: 22.DEC.2012 09:52:18

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2. 802.11b at 1Mbps of CH06



DELTA MARKER 2

10.08 MHz

Ref 20 dBm

* Att 30 dB

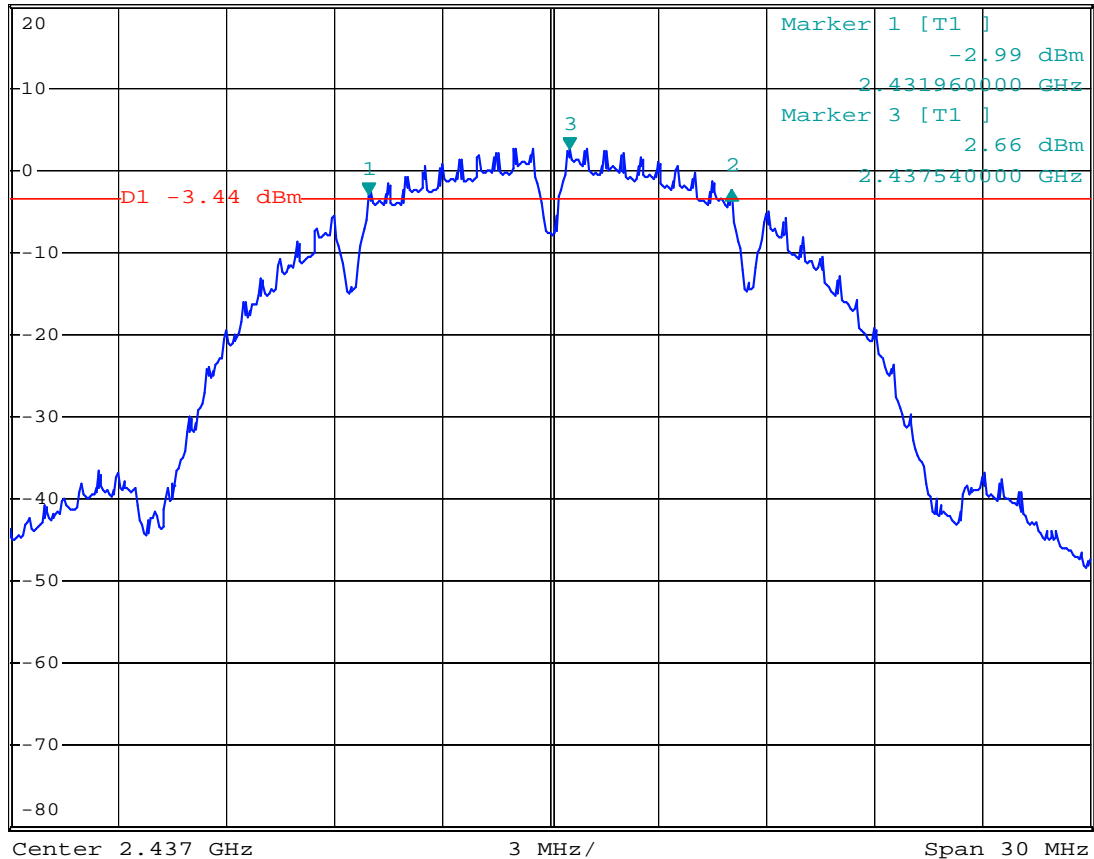
* RBW 100 kHz Delta 2 [T1]

* VBW 300 kHz 0.49 dB

SWT 5 ms

10.080000000 MHz

1 PK
MAXH



Date: 22.DEC.2012 09:54:13

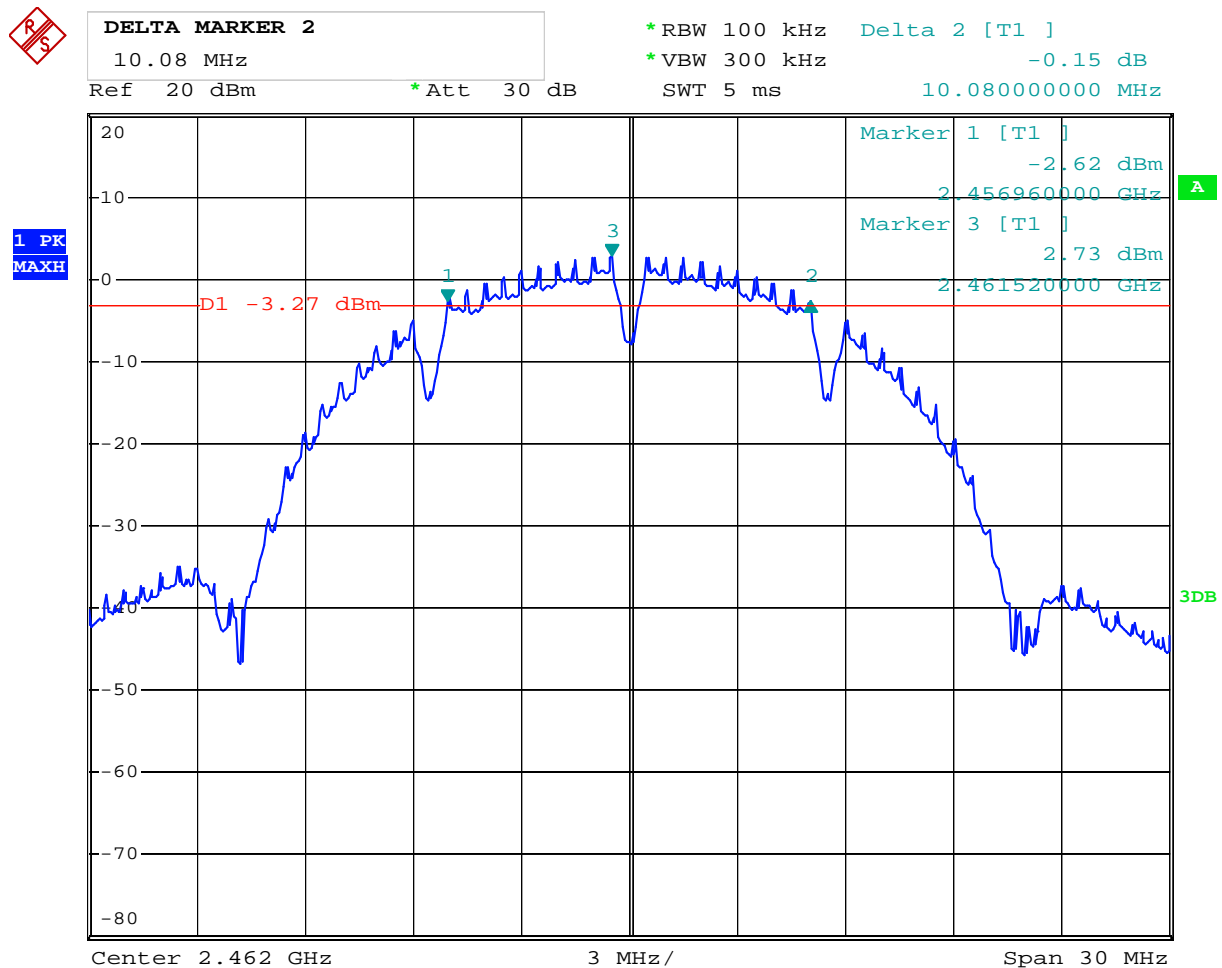
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3. 802.11b at 1Mbps of CH11

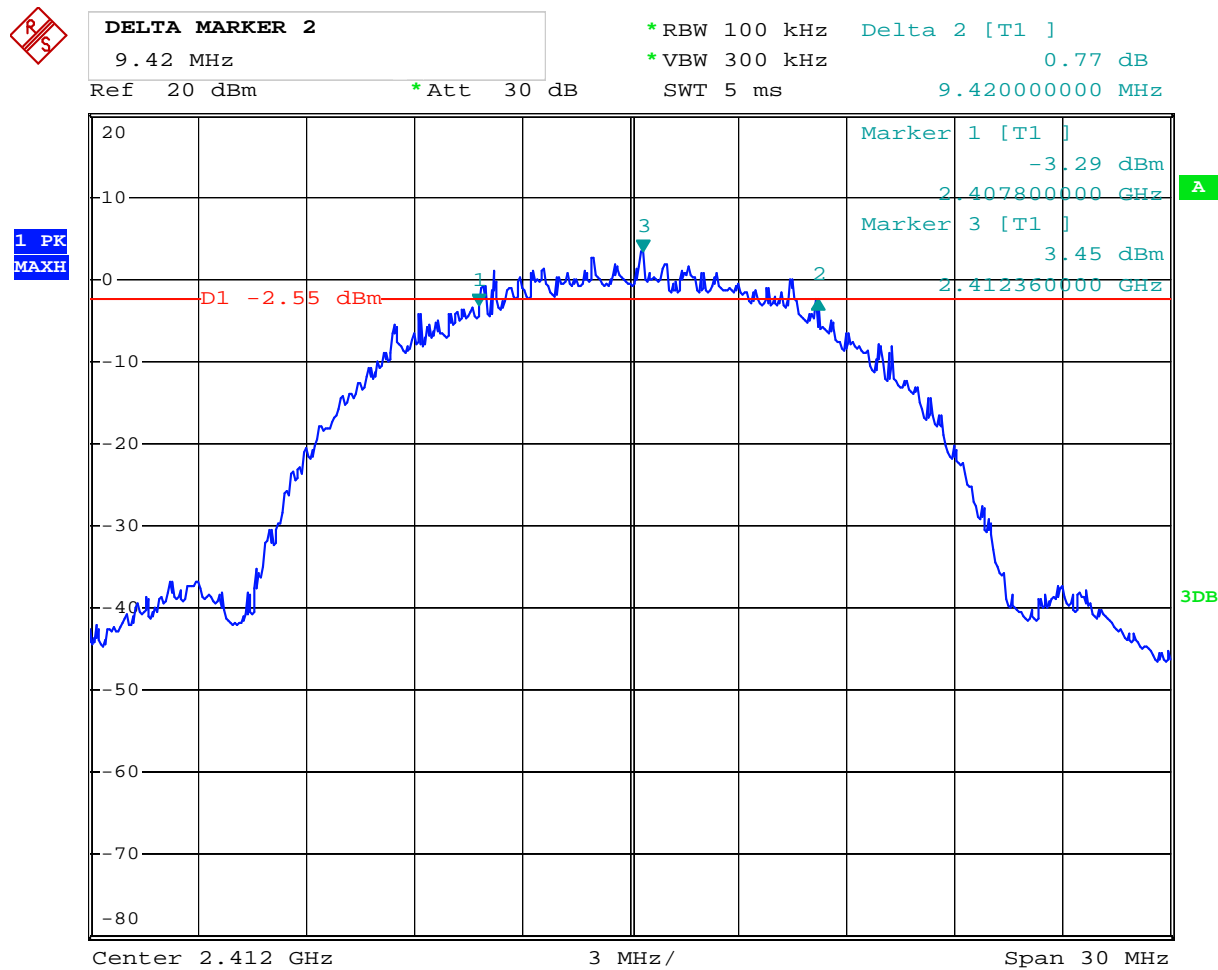


Date: 22.DEC.2012 09:55:29

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4. 802.11b at 11Mbps of CH01

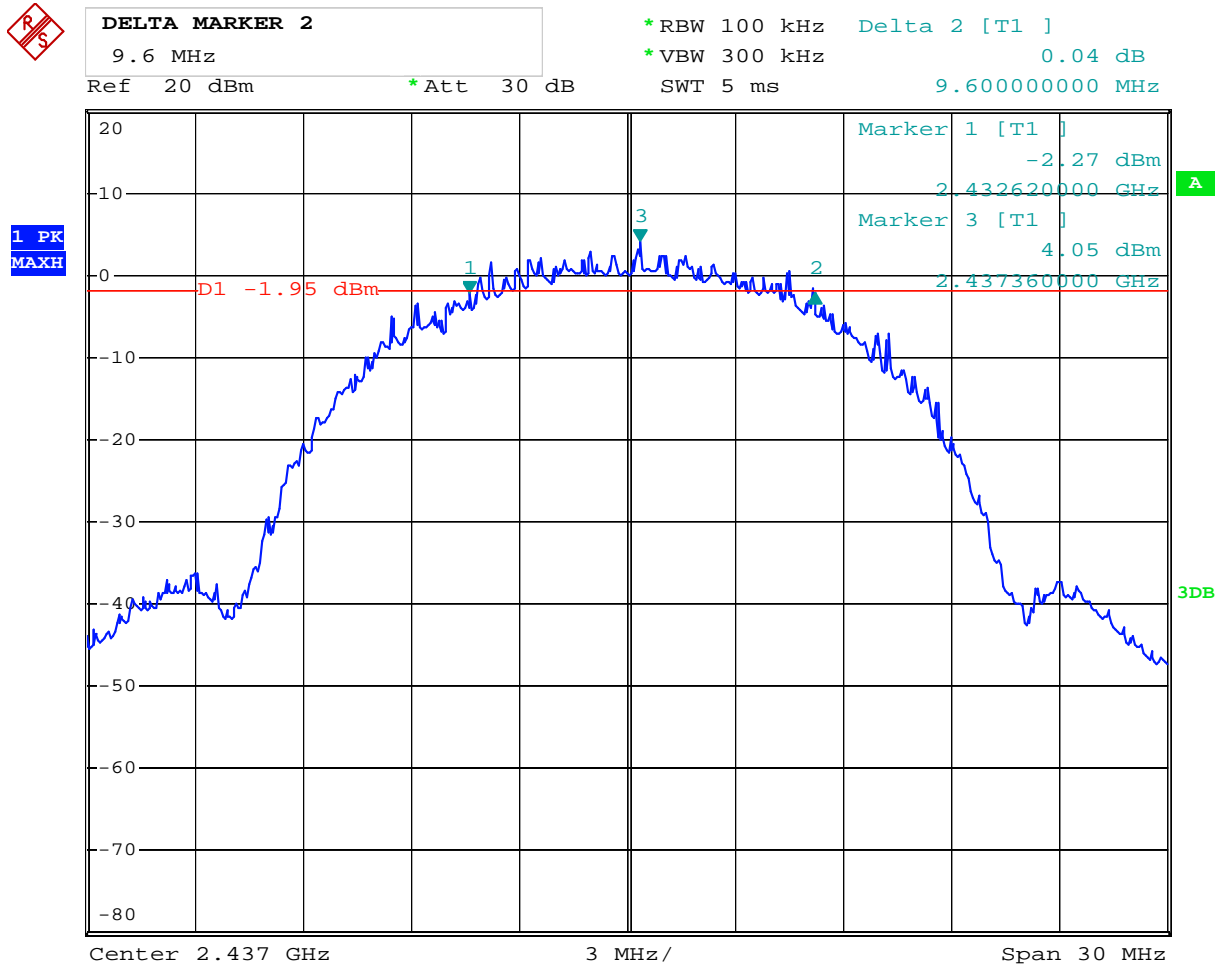


Date: 22.DEC.2012 09:59:29

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5. 802.11b at 11Mbps of CH06



Date: 22.DEC.2012 09:58:11

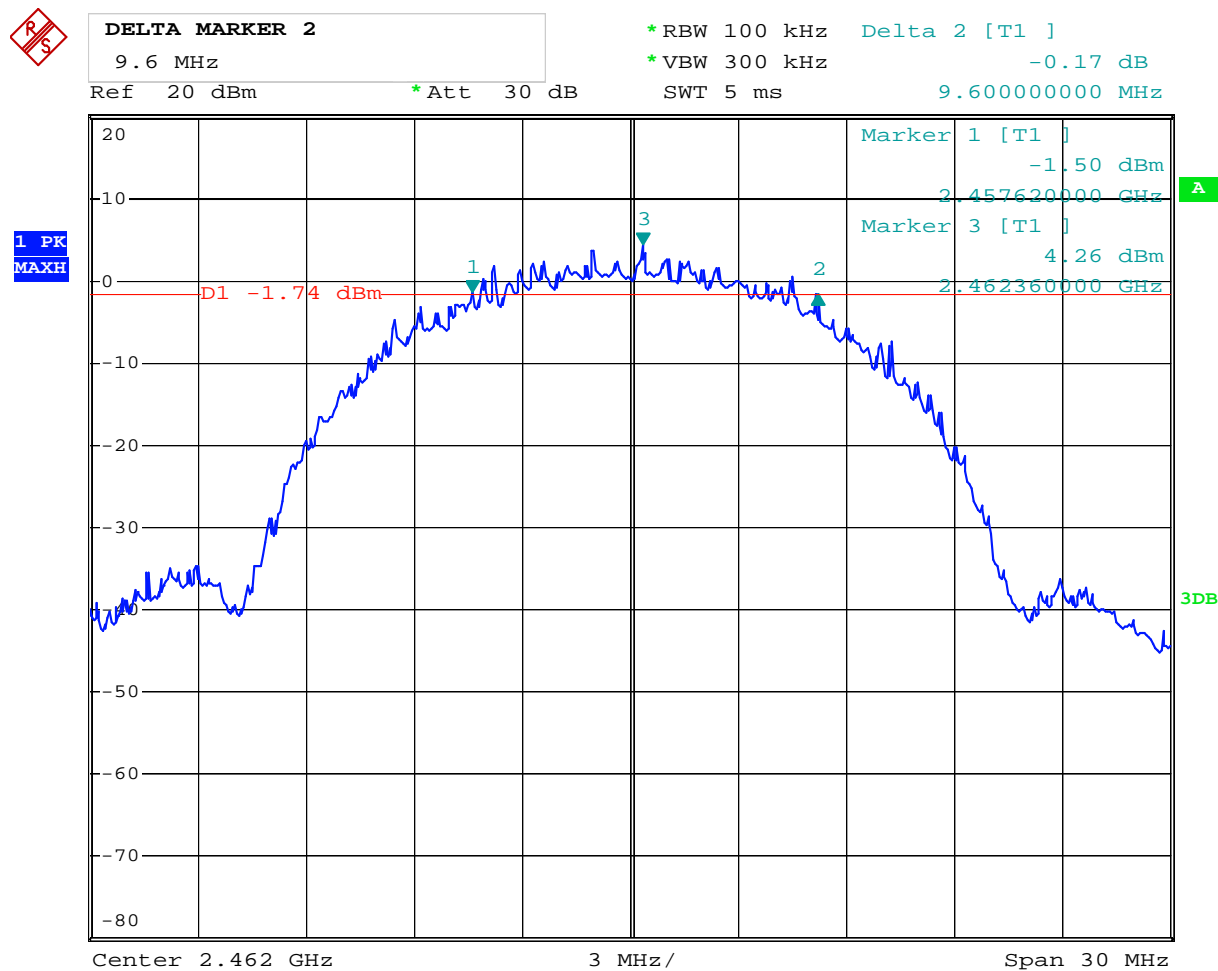
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6. 802.11b at 11Mbps of CH11



Date: 22.DEC.2012 09:56:59

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6dB Occupied Bandwidth

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322		
Mode	802.11g	Input Voltage	AC 120V		
Temperature	24 deg. C,	Humidity	56% RH		
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	16.50	0.5	Pass
6	2437	6	16.50	0.5	Pass
11	2462	6	16.50	0.5	Pass

The report refers only to the sample tested and does not apply to the bulk.

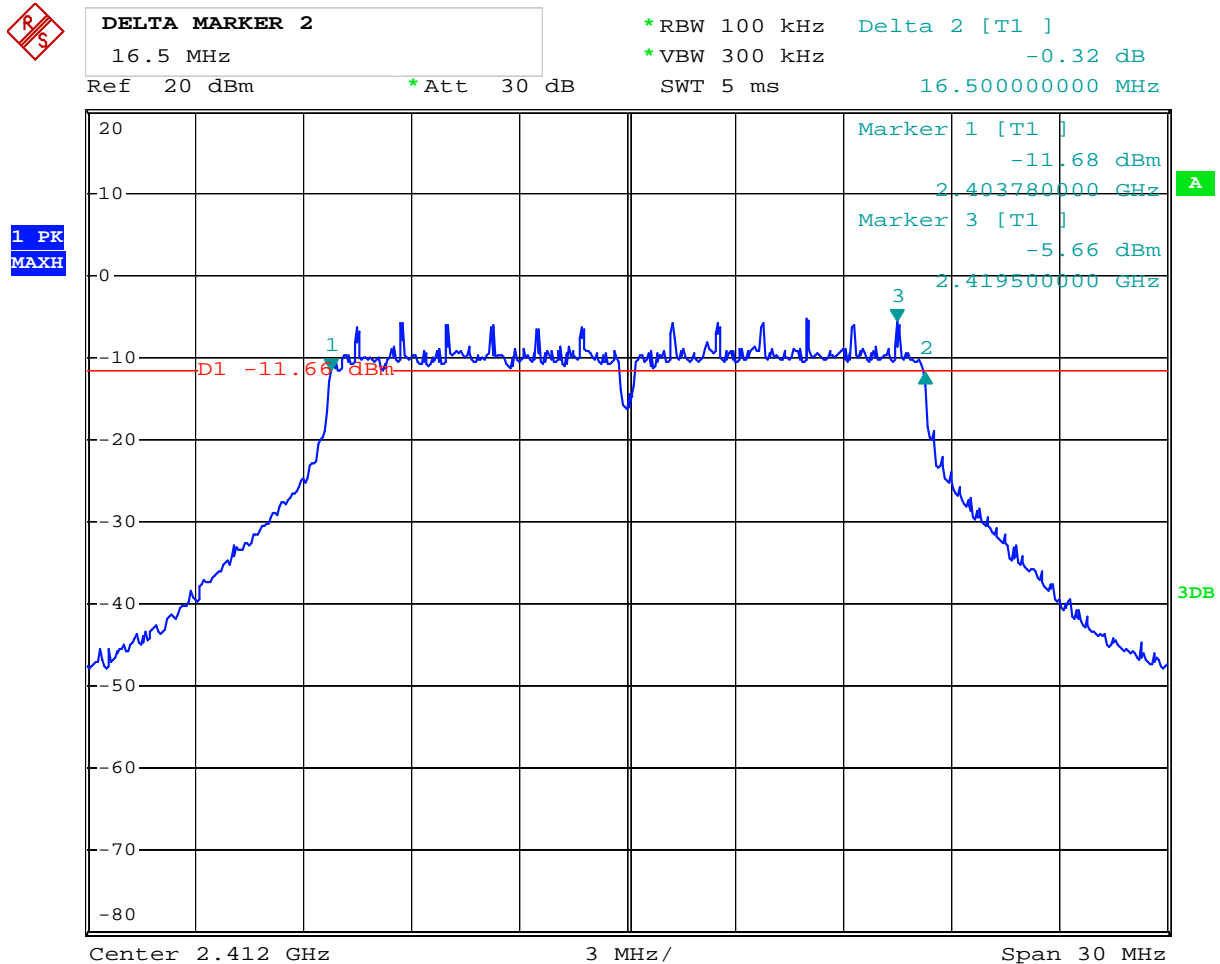
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Test Plots:

1. 802.11g at 6Mbps of CH01



Date: 22.DEC.2012 10:01:01

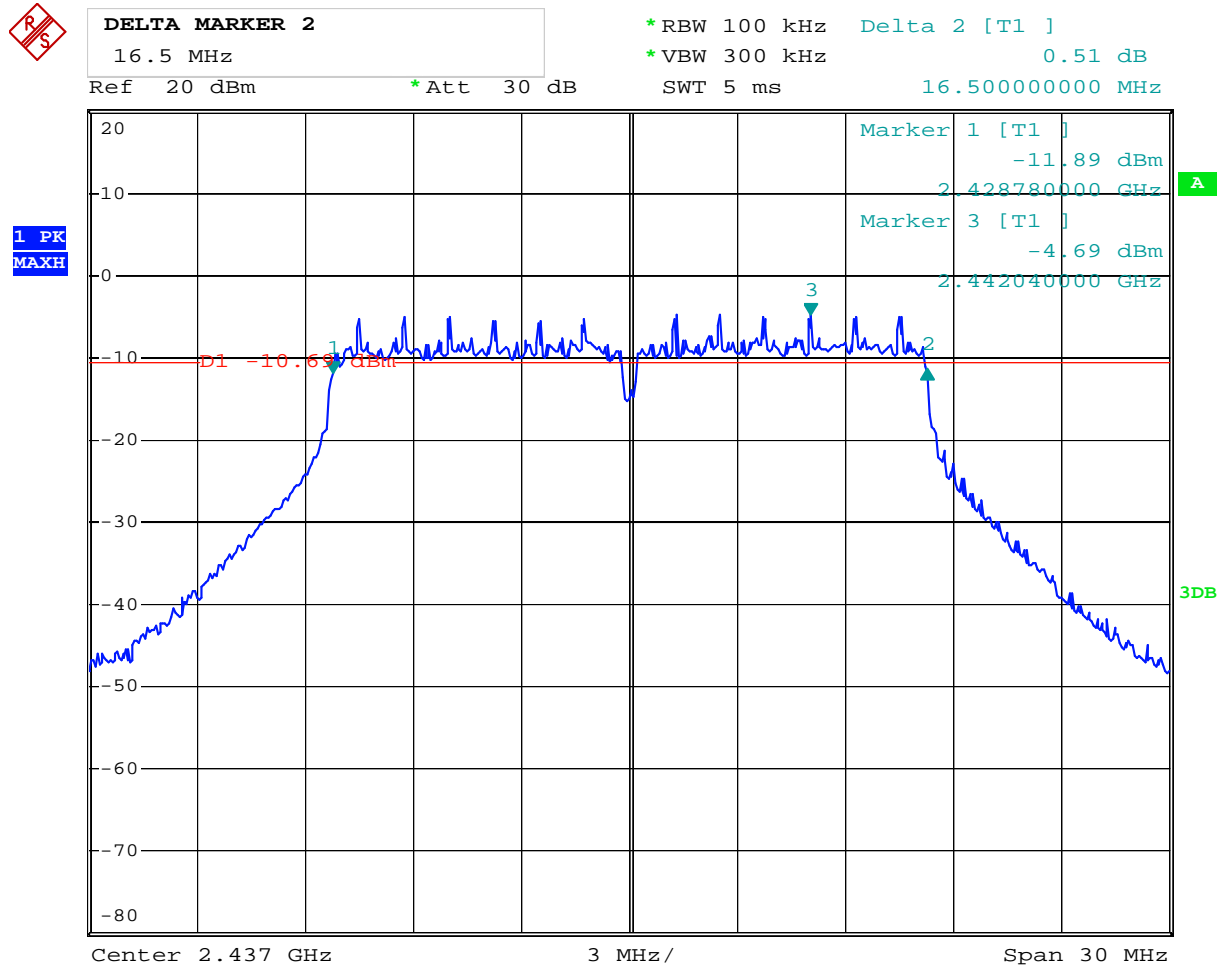
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2. 802.11g at 6Mbps of CH06

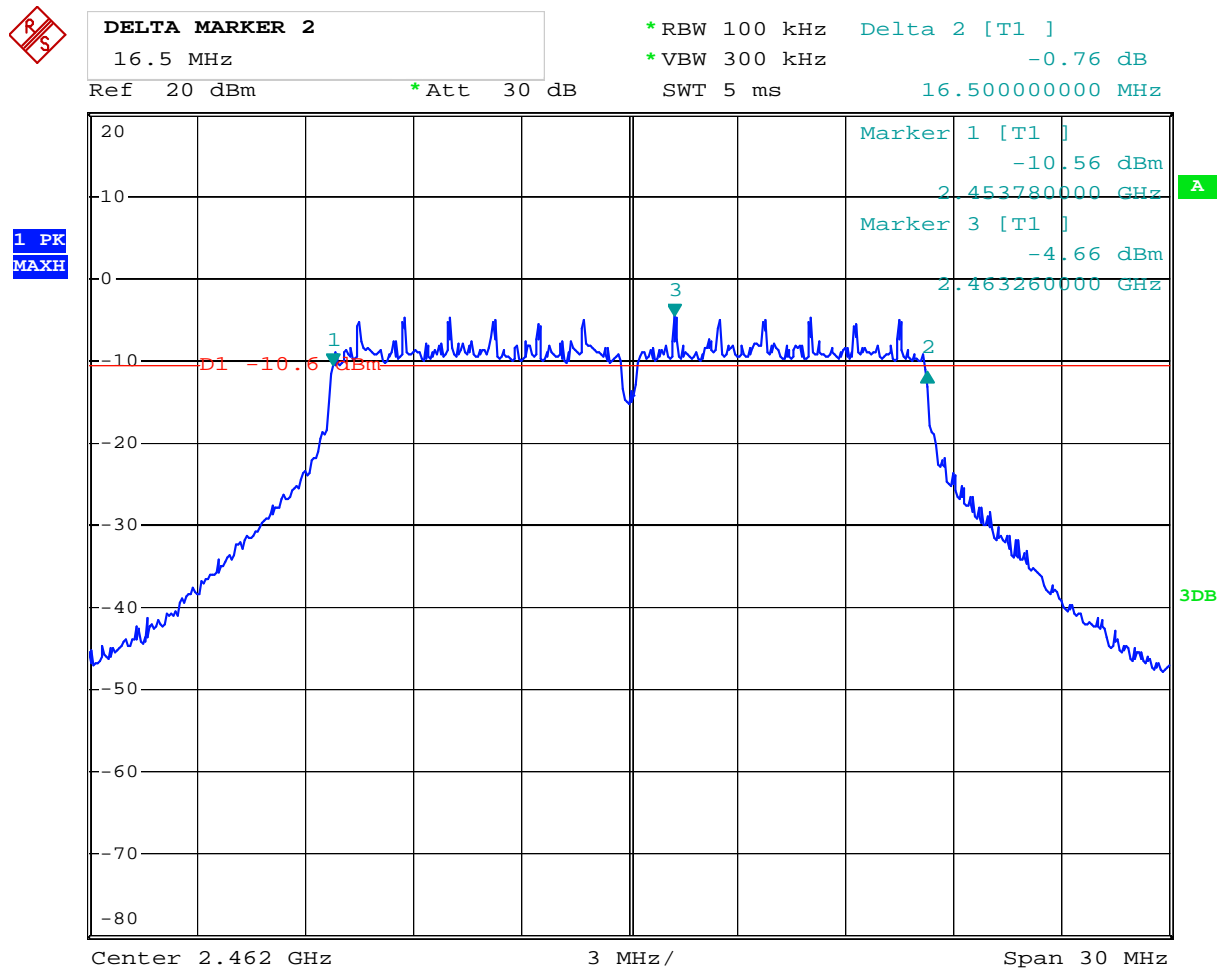


Date: 22.DEC.2012 10:02:27

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3. 802.11g at 6Mbps of CH11



Date: 22.DEC.2012 10:03:45

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6dB Occupied Bandwidth

EUT		Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322		
Mode		802.11n	Input Voltage	AC 120V		
Temperature		24 deg. C,	Humidity	56% RH		
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail	
1	2412	HT20	17.64	0.5	Pass	
6	2437	HT20	17.58	0.5	Pass	
11	2462	HT20	17.64	0.5	Pass	
1	2422	HT40	35.42	0.5	Pass	
4	2437	HT40	35.42	0.5	Pass	
7	2452	HT40	35.42	0.5	Pass	

The report refers only to the sample tested and does not apply to the bulk.

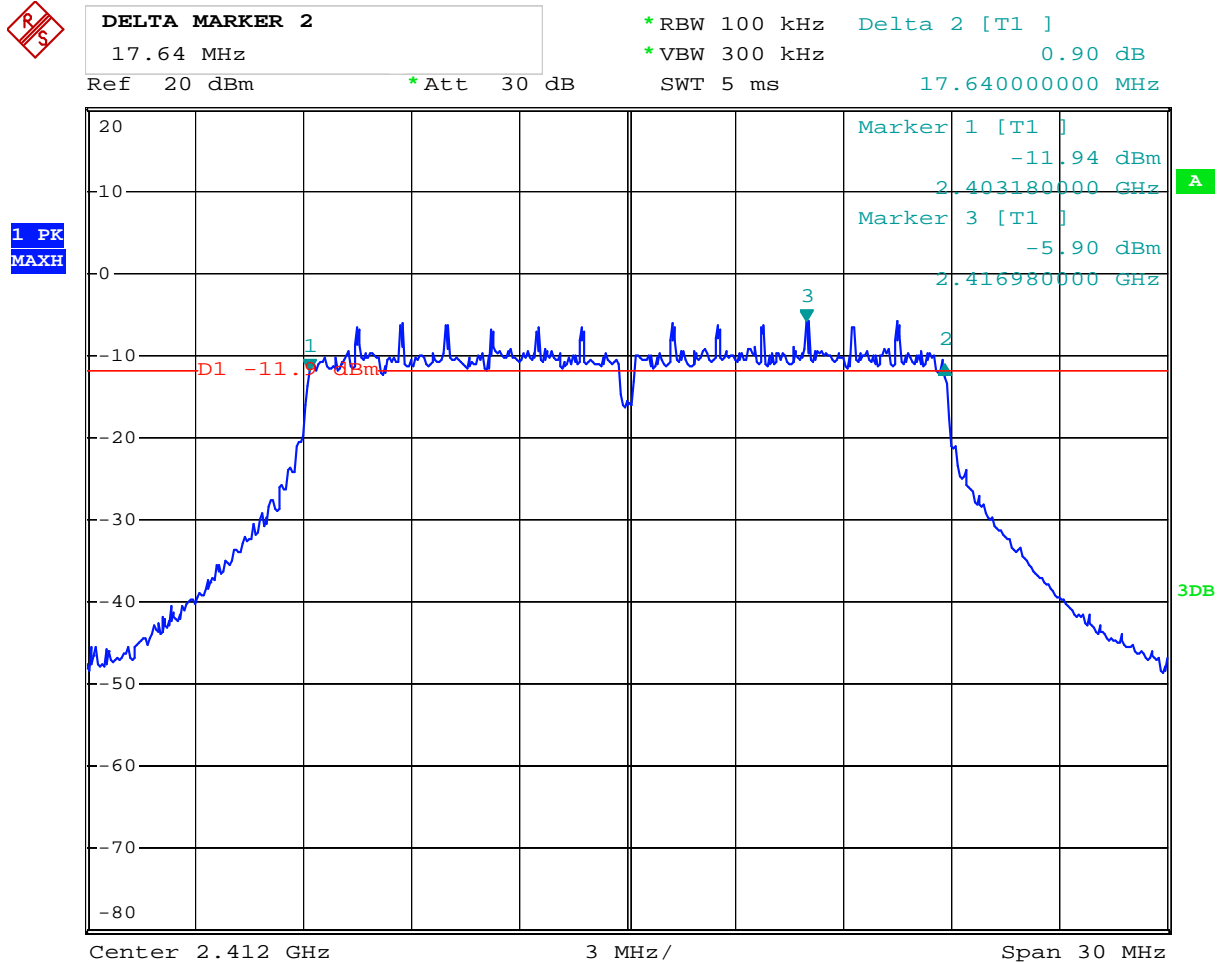
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Test Plots:

1. 802.11n at HT20 of CH01



Date: 22.DEC.2012 10:09:22

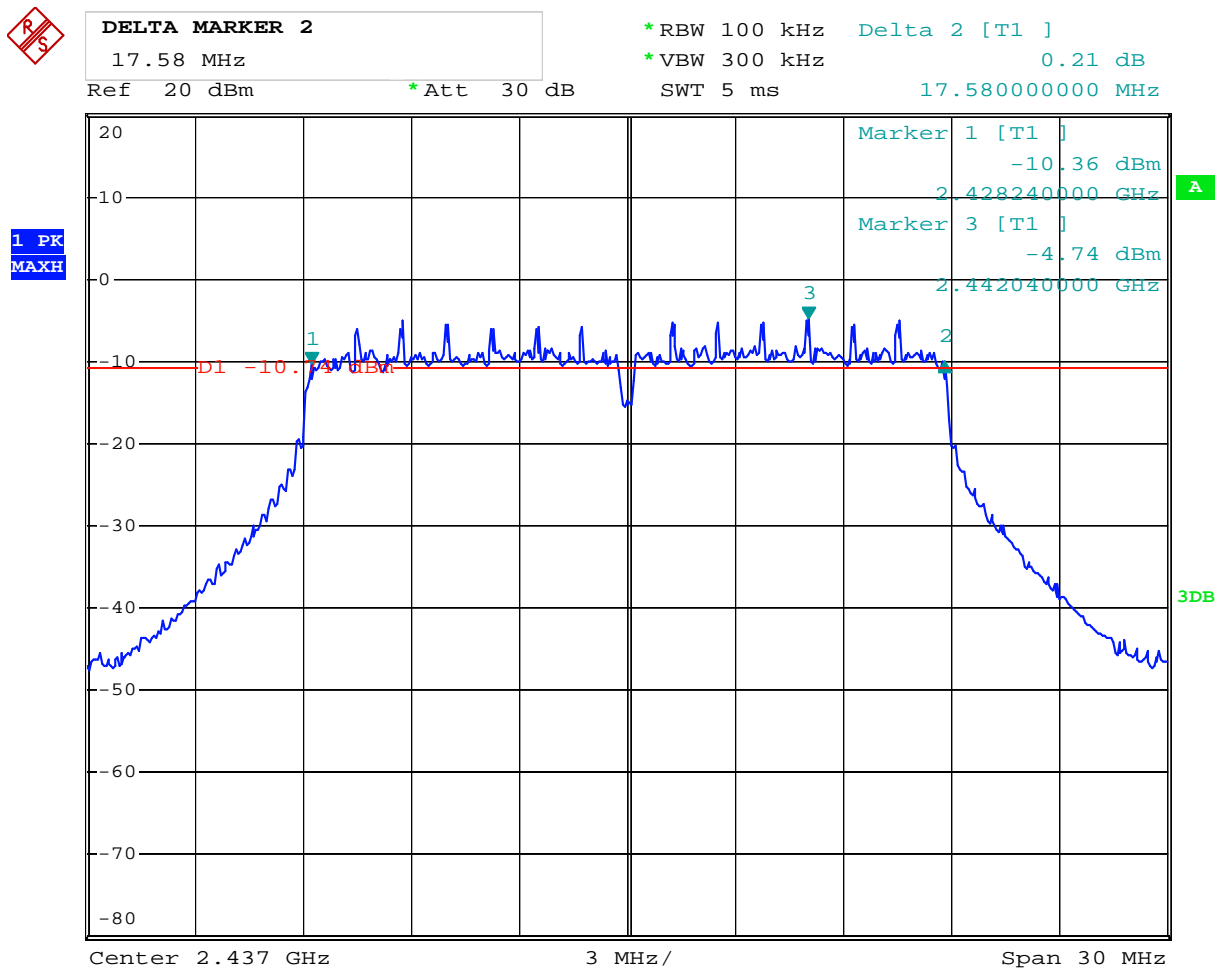
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2. 802.11n at HT20 of CH06



Date: 22.DEC.2012 10:08:06

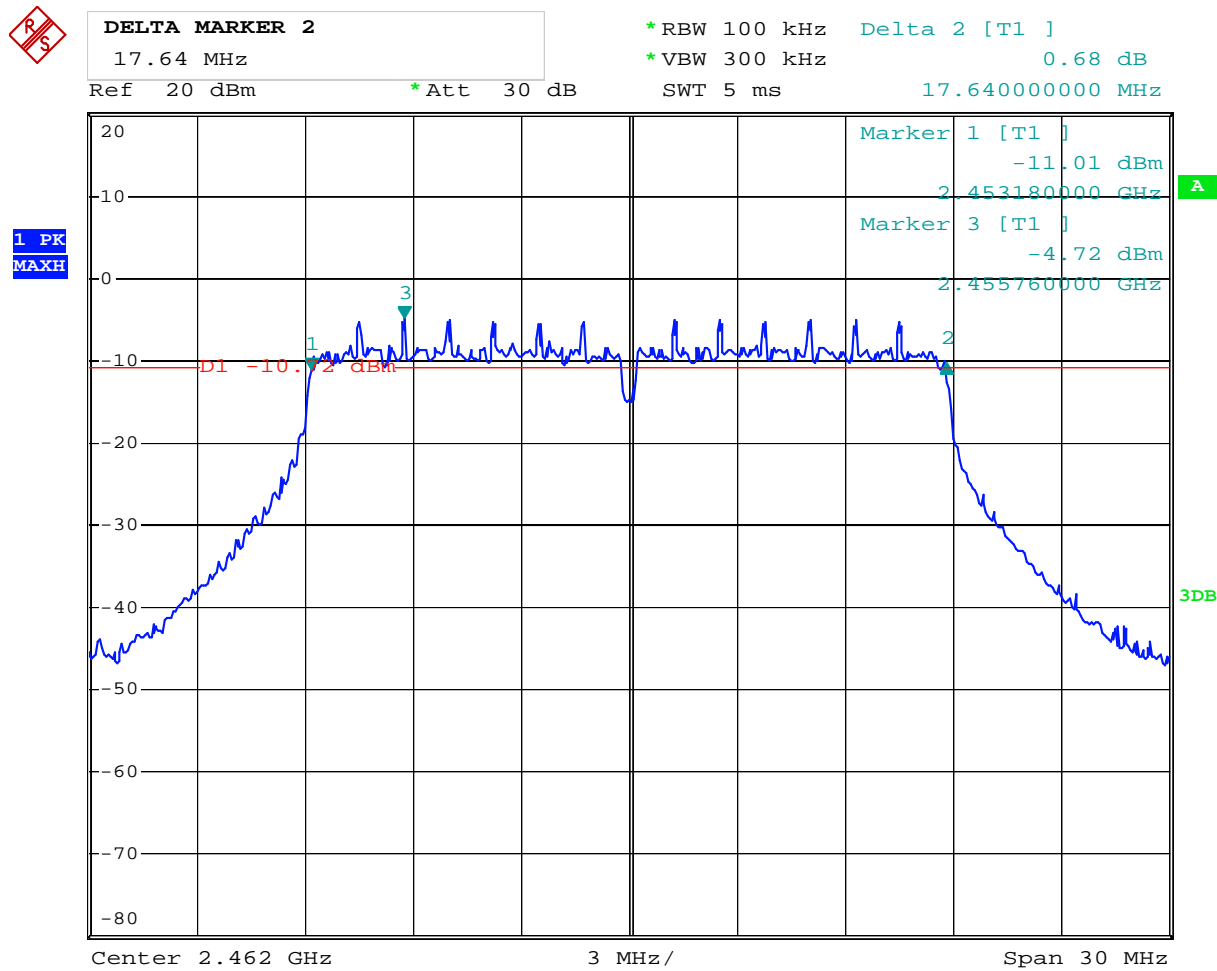
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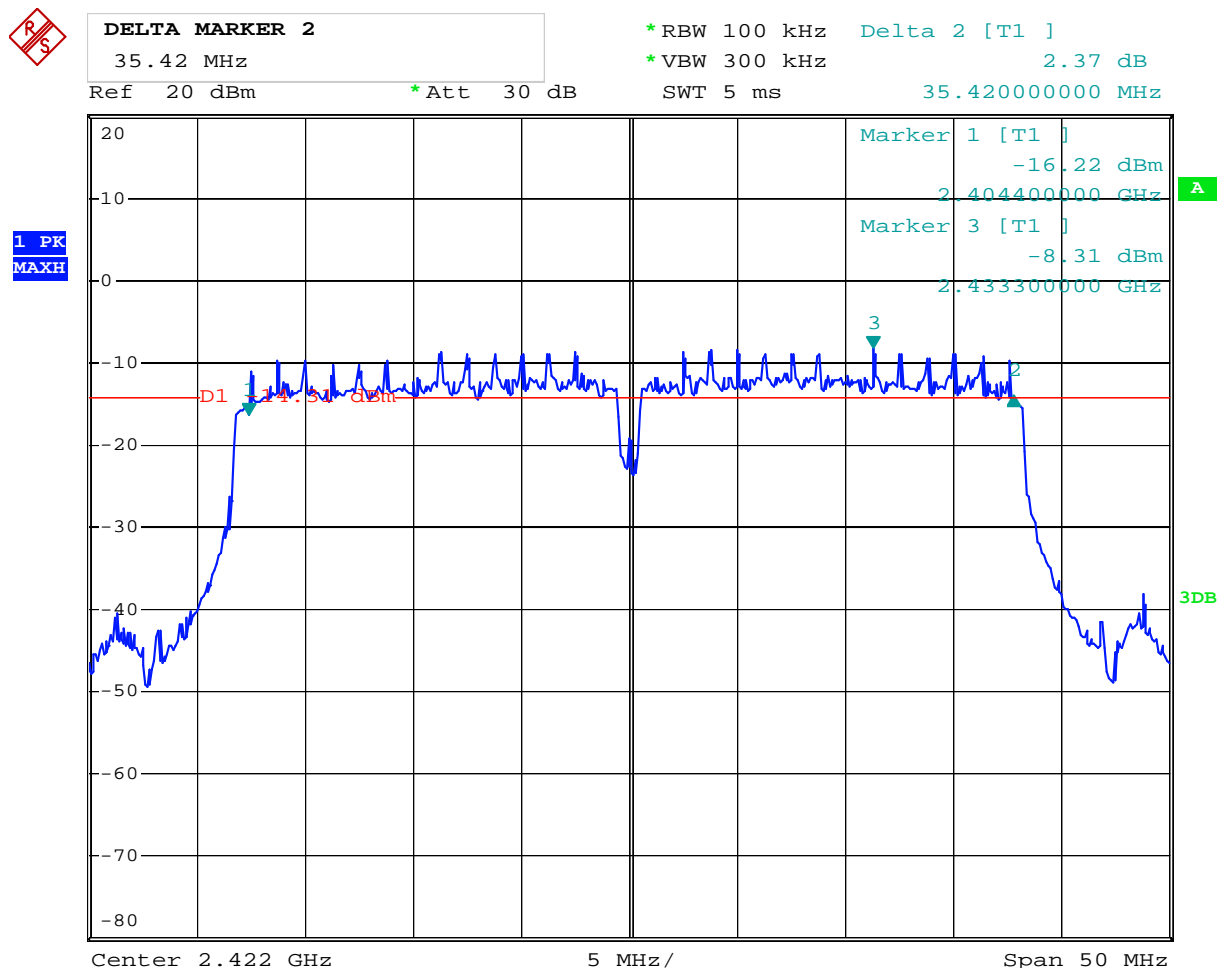


3. 802.11n at HT20 of CH11



Date: 22.DEC.2012 10:06:36

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Date: 22.DEC.2012 10:11:27

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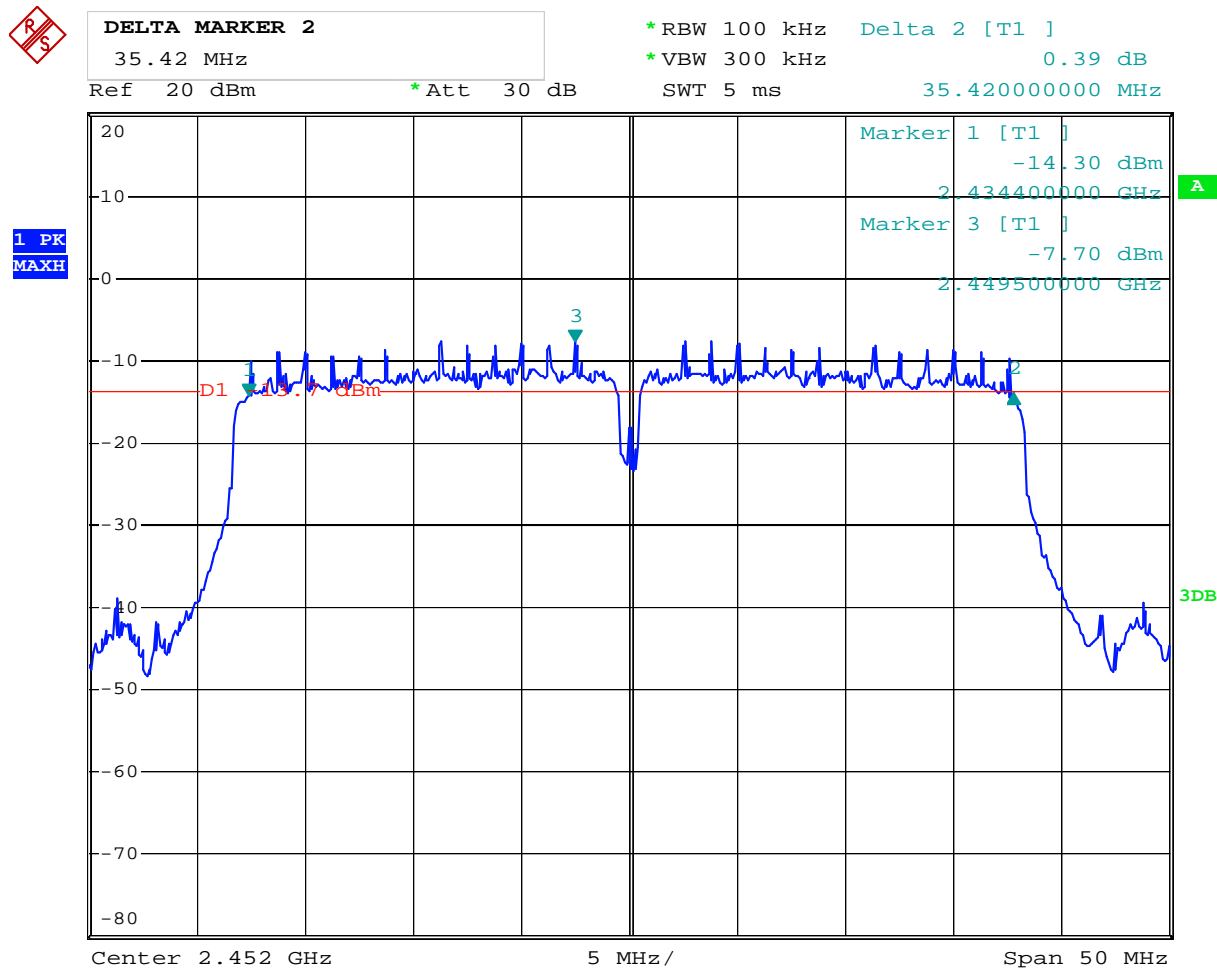
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6. 802.11n at HT40 of CH07



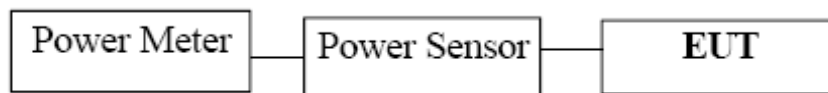
Date: 22.DEC.2012 10:14:21

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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

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8.4 Test Results

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11b	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	15.25	30	Pass
6	2437	15.27	30	Pass
11	2462	16.13	30	Pass

Note: 1. At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The test voltage varied from AC102V-138V. The worse case was recorded

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11g	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	12.50	30	Pass
6	2437	12.75	30	Pass
11	2462	13.59	30	Pass

Note: 1. At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

3. The test voltage varied from AC102V-138V. The worse case was recorded

The report refers only to the sample tested and does not apply to the bulk.

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EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11n (HT20)	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2412	12.04	30	Pass
6	2437	12.22	30	Pass
11	2462	13.14	30	Pass

- Note: 1. At final test to get the worst-case emission at 11n HT20 for CH01, CH06 and CH11
2. The result basic equation calculation as follow:
Peak Power Output = Peak Power Reading + Cable loss + Attenuator
3. The test voltage varied from AC102V-138V. The worse case was recorded

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11n (HT40)	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1	2422	12.32	30	Pass
4	2437	12.42	30	Pass
7	2452	12.70	30	Pass

- Note: 1. At final test to get the worst-case emission at 11n HT40 for CH01, CH04 and CH07
2. The result basic equation calculation as follow:
Peak Power Output = Peak Power Reading + Cable loss + Attenuator
3. The test voltage varied from AC102V-138V. The worse case was recorded

The report refers only to the sample tested and does not apply to the bulk.

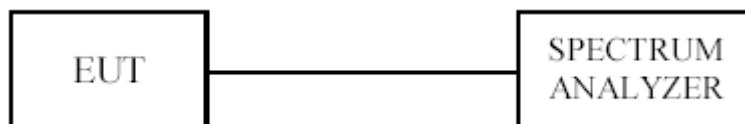
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
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.
11. The resulting peak PSD level must be \leq 8 dBm.

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9.4 Test Result

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11b 11Mbps	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
11Mbps				
1	2412	-7.08	8	Pass
6	2437	-6.17	8	Pass
11	2462	-6.20	8	Pass

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11b 1Mbps	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
1Mbps				
1	2412	-3.36	8	Pass
6	2437	-2.17	8	Pass
11	2462	-2.50	8	Pass

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EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11g 6Mbps	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
6Mbps				
1	2412	-16.03	8	Pass
6	2437	-16.15	8	Pass
11	2462	-15.63	8	Pass

EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11n HT20	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT20				
1	2412	-15.05	8	Pass
6	2437	-14.90	8	Pass
11	2462	-13.65	8	Pass

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EUT	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	802.11n HT40	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
HT40				
1	2422	-18.73	8	Pass
6	2437	-19.04	8	Pass
11	2452	-19.02	8	Pass

The report refers only to the sample tested and does not apply to the bulk.

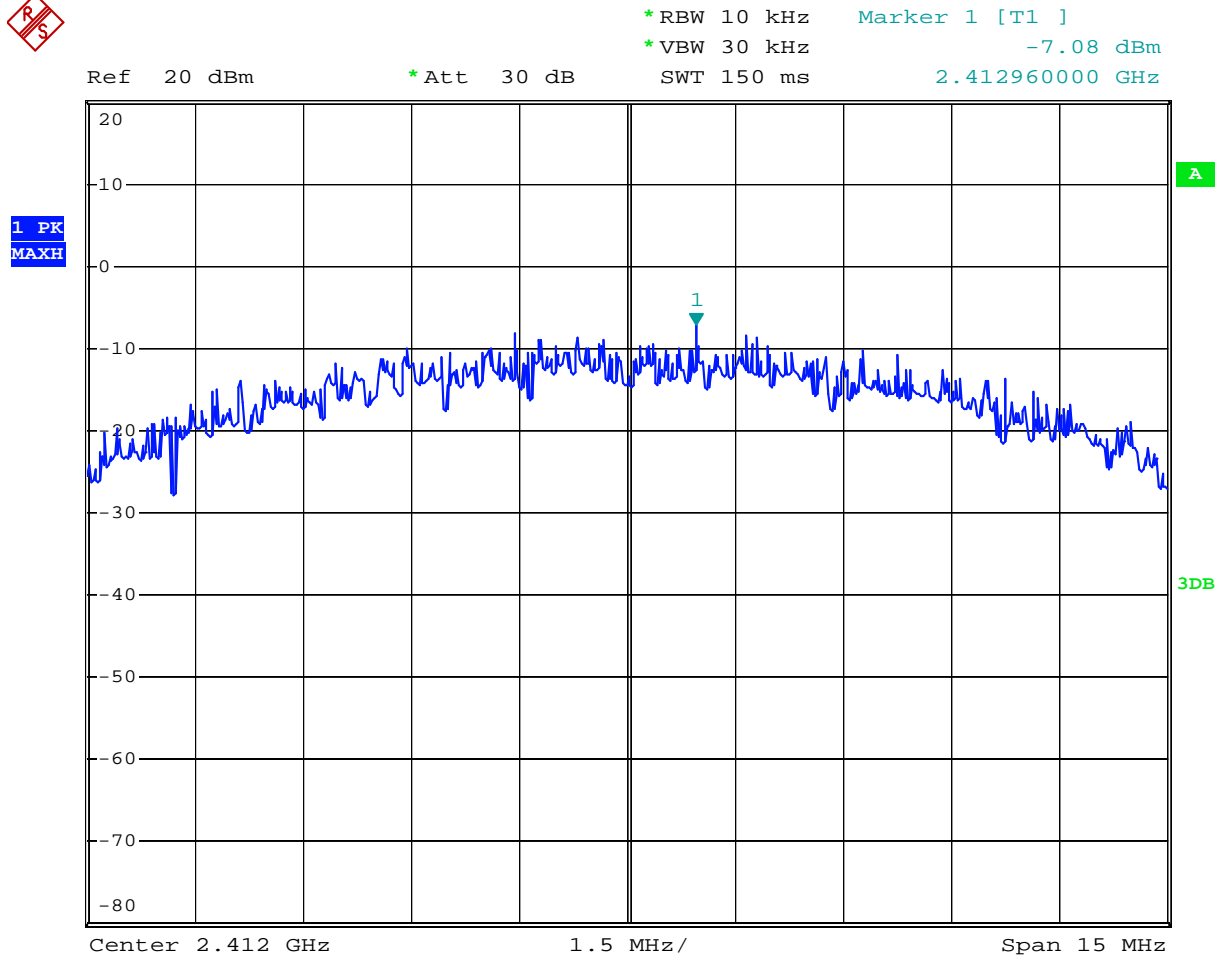
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



Date: 22.DEC.2012 11:48:02

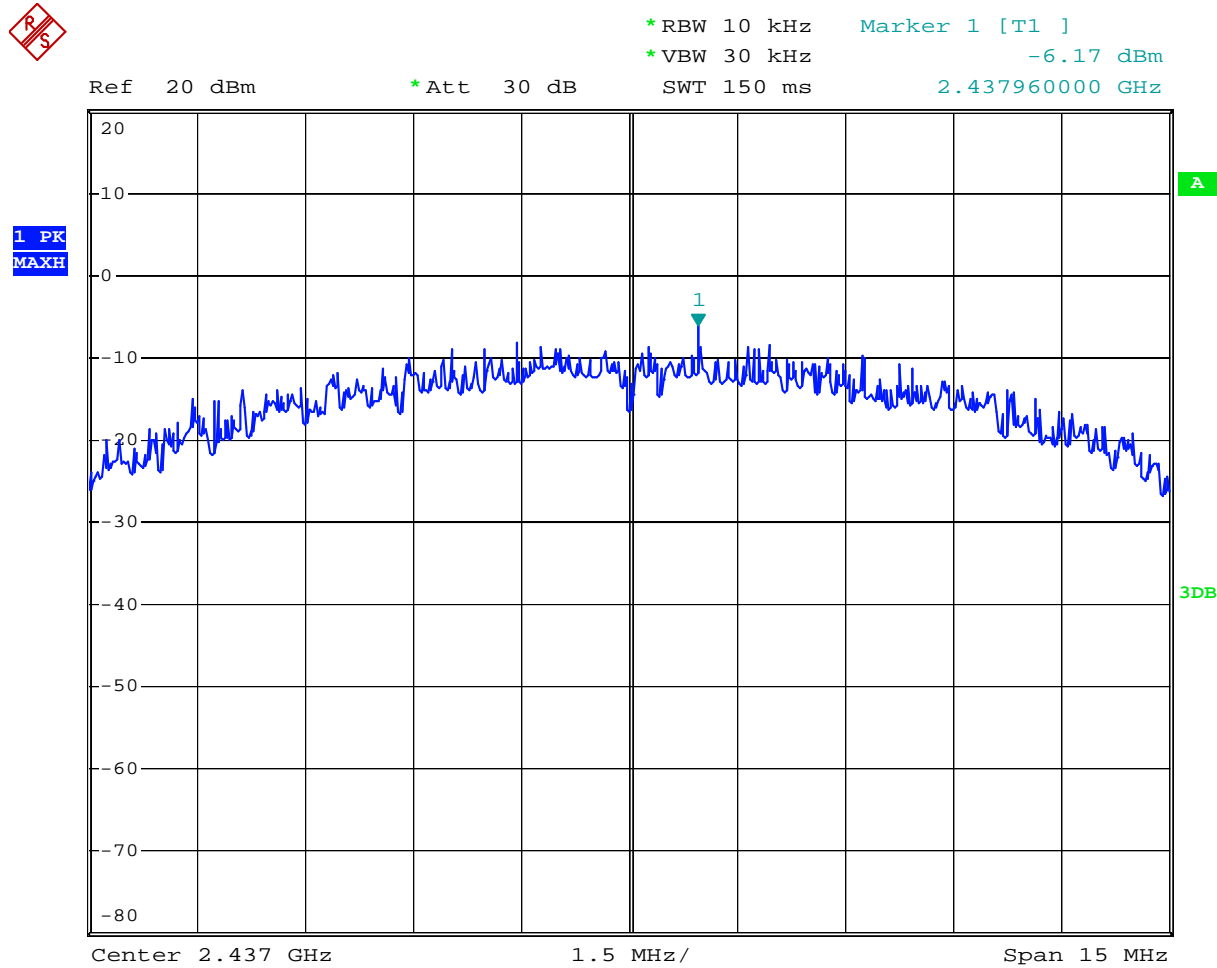
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2. 802.11b at 11Mbps at CH06

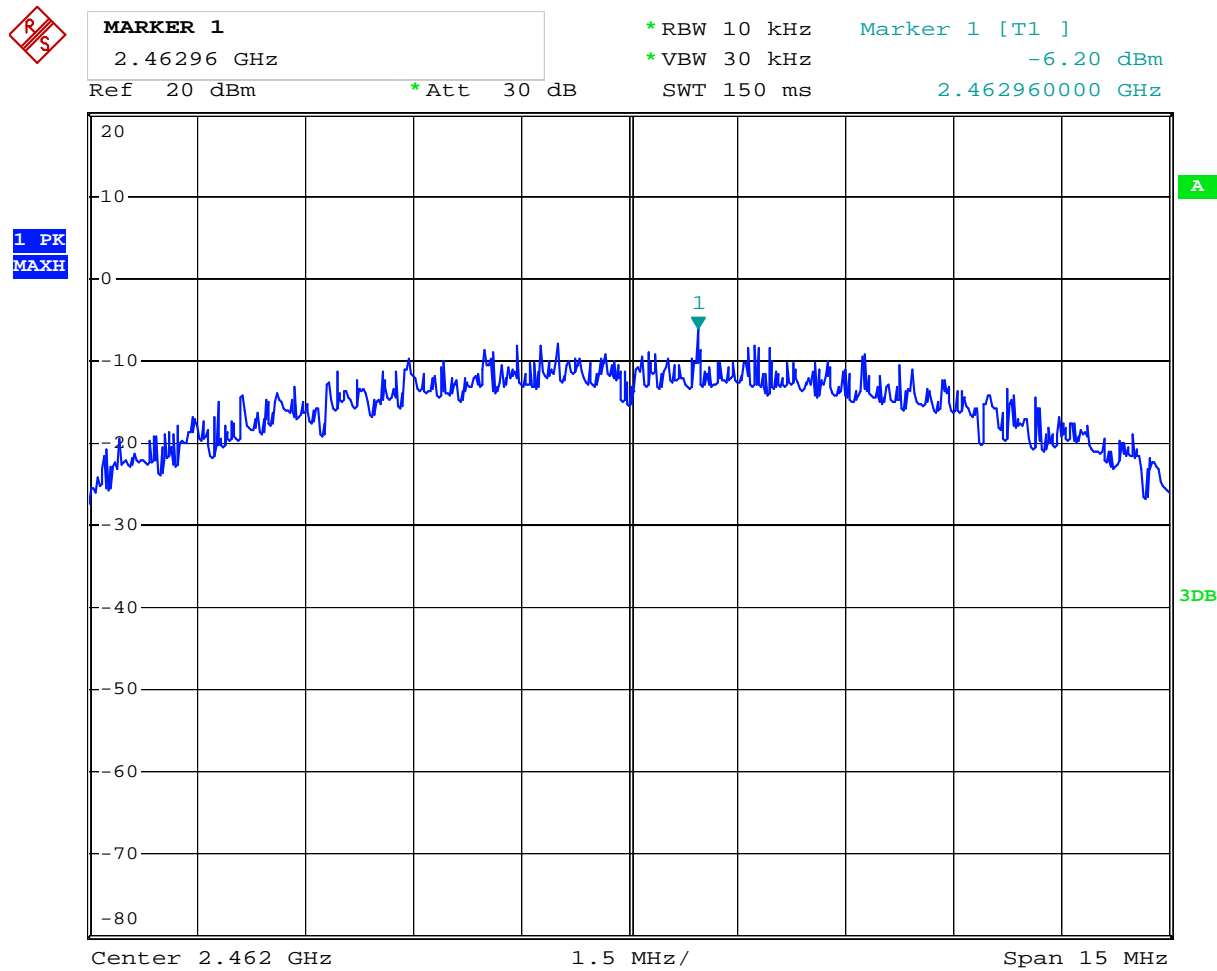


Date: 22.DEC.2012 11:49:07

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3. 802.11b at 11Mbps of CH11

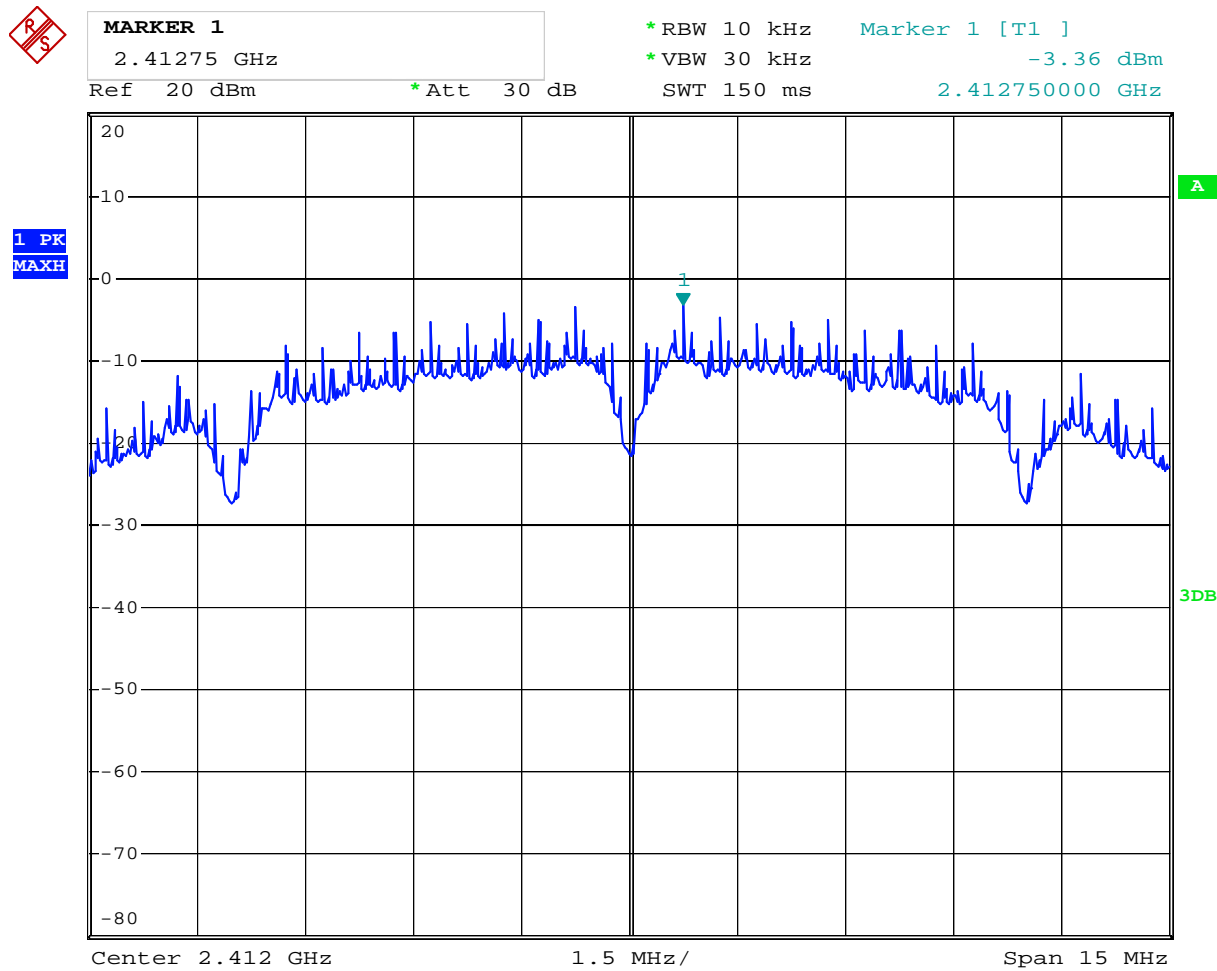


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4. 802.11b at 1Mbps of CH1



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5. 802.11b at 1Mbps of CH6



MARKER 1

2.43775 GHz

Ref 20 dBm

* Att 30 dB

* RBW 10 kHz

* VBW 30 kHz

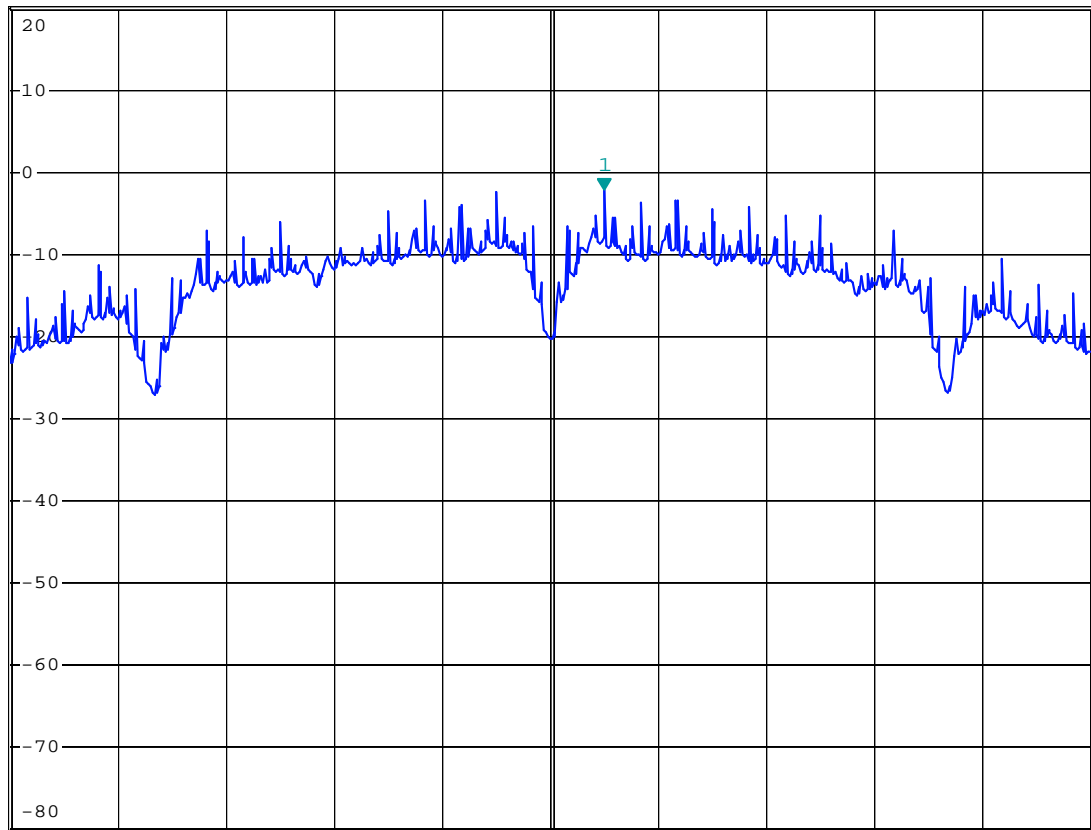
SWT 150 ms

Marker 1 [T1]

-2.17 dBm

2.437750000 GHz

1 PK
MAXH



Center 2.437 GHz

1.5 MHz/

Span 15 MHz

Date: 22.DEC.2012 10:19:51

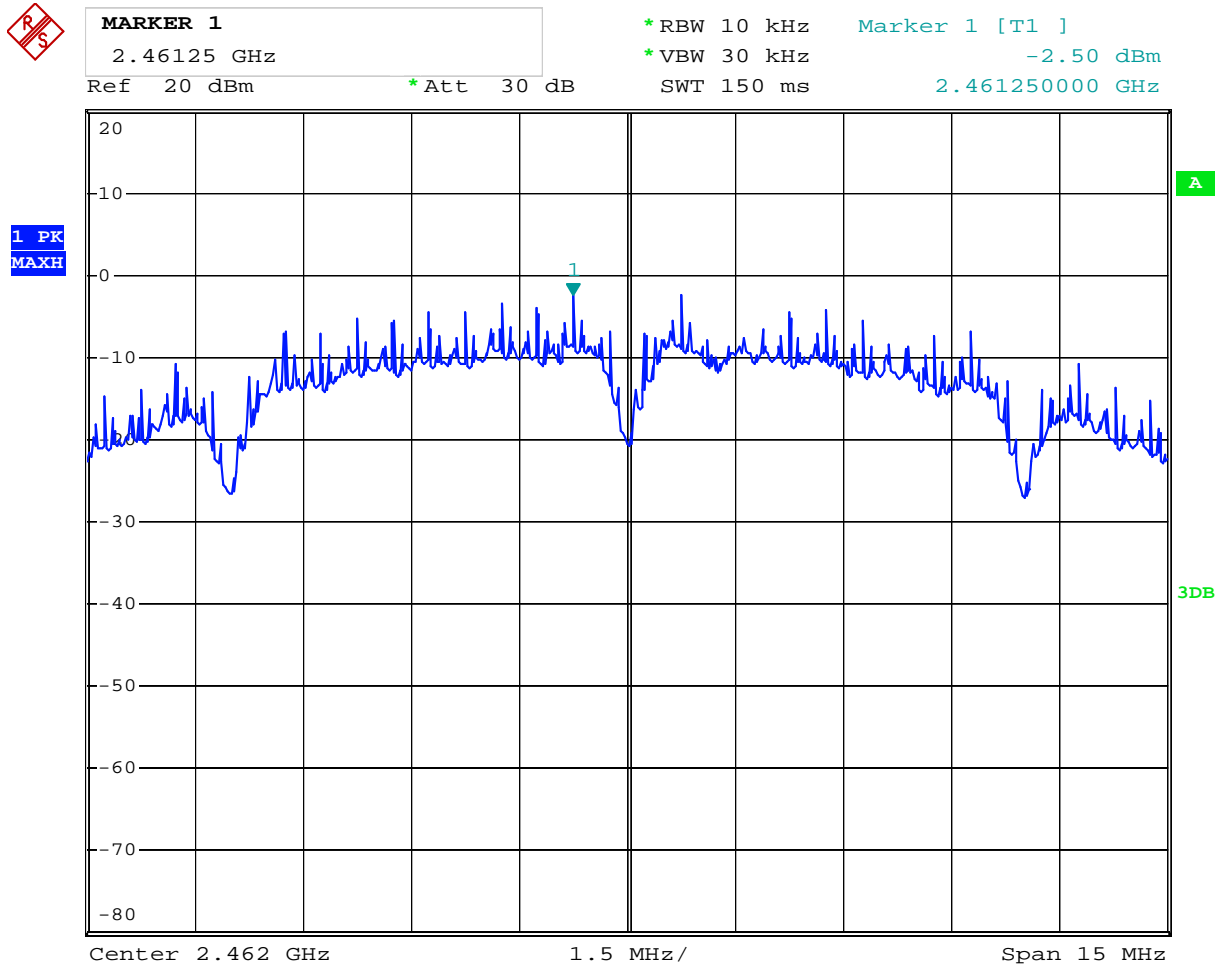
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6. 802.11b at 1Mbps of CH11

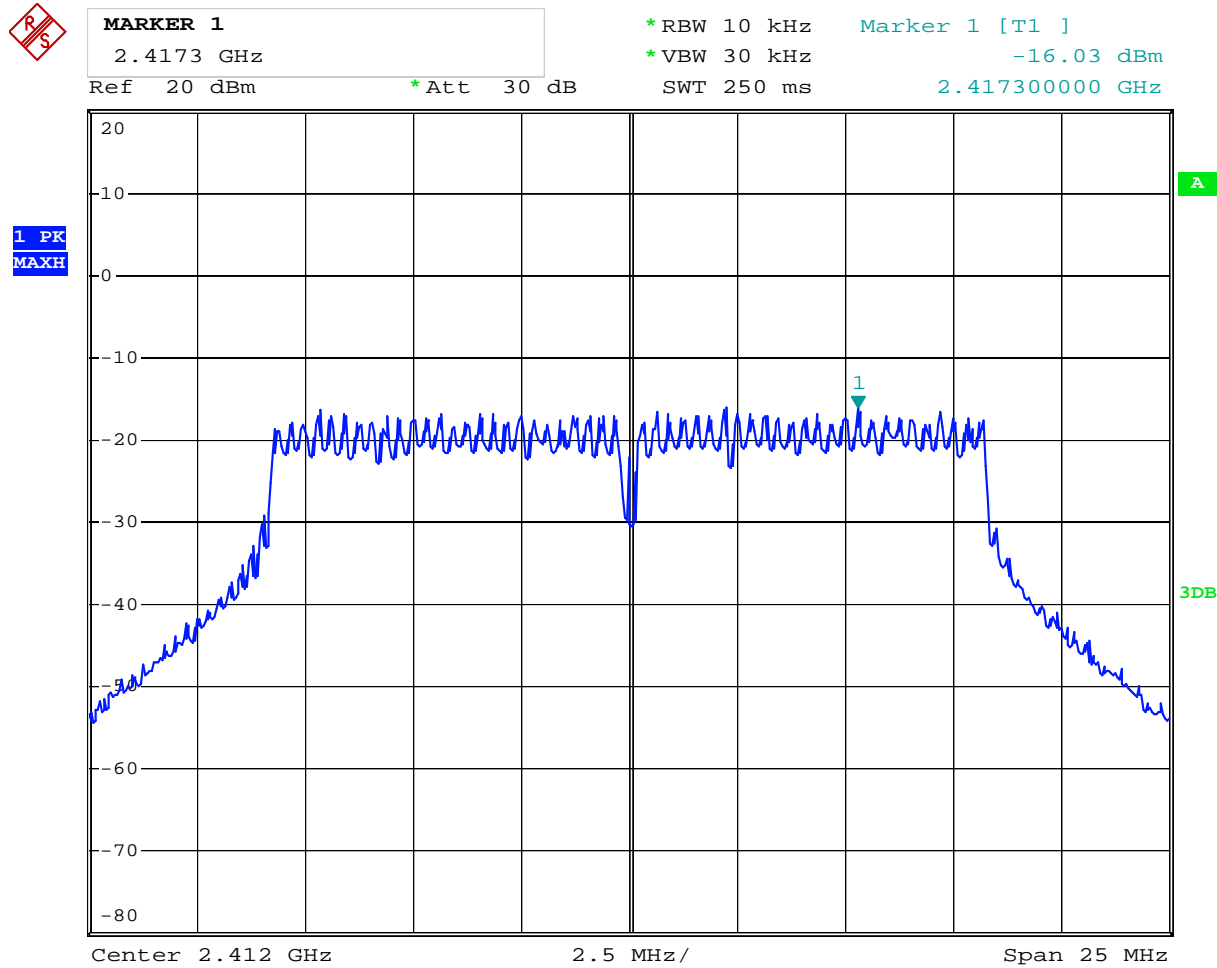


Date: 22.DEC.2012 10:21:35

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7. 802.11g at 6Mbps of CH1

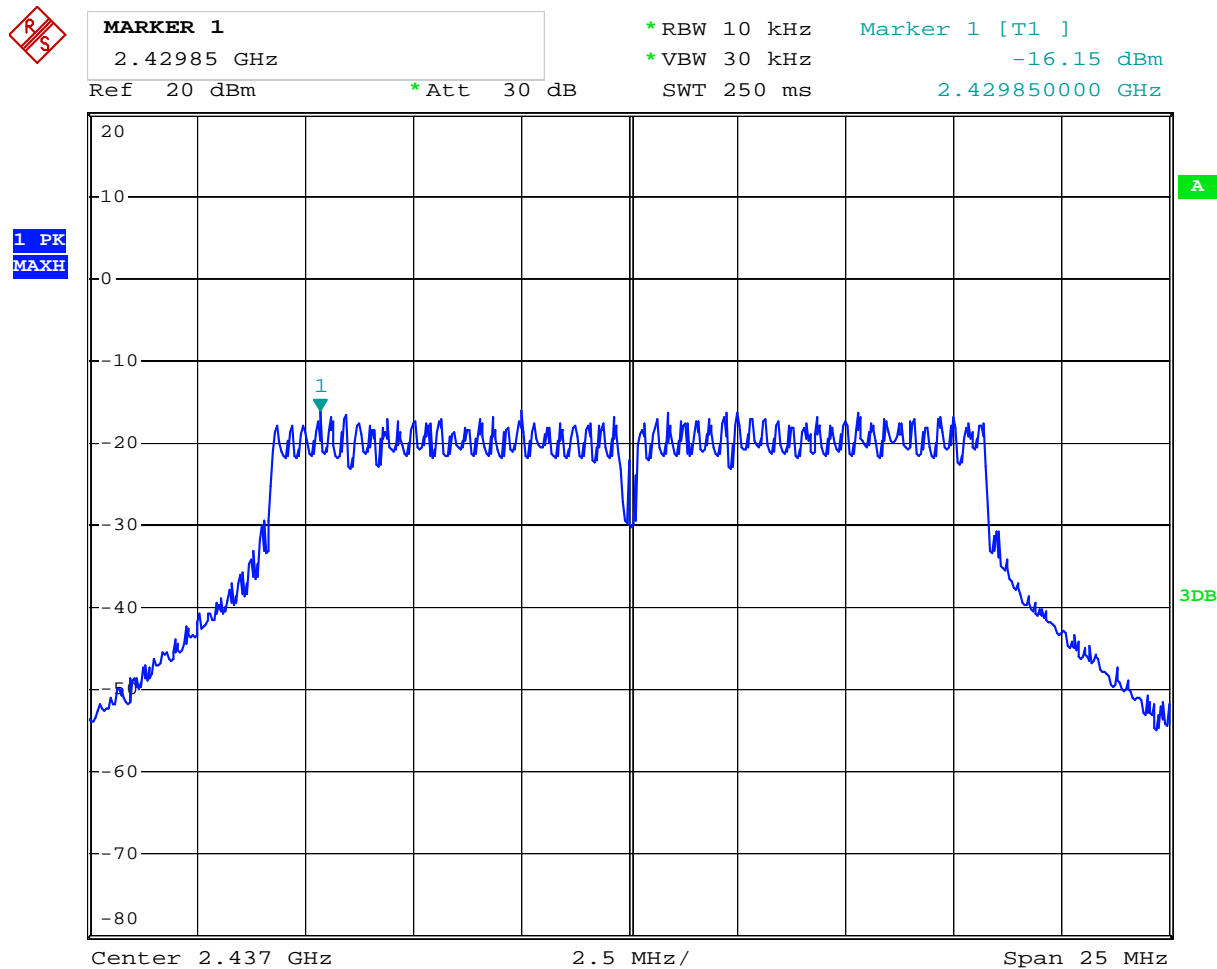


Date: 22.DEC.2012 11:52:31

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8. 802.11g at 6 Mbps of CH6

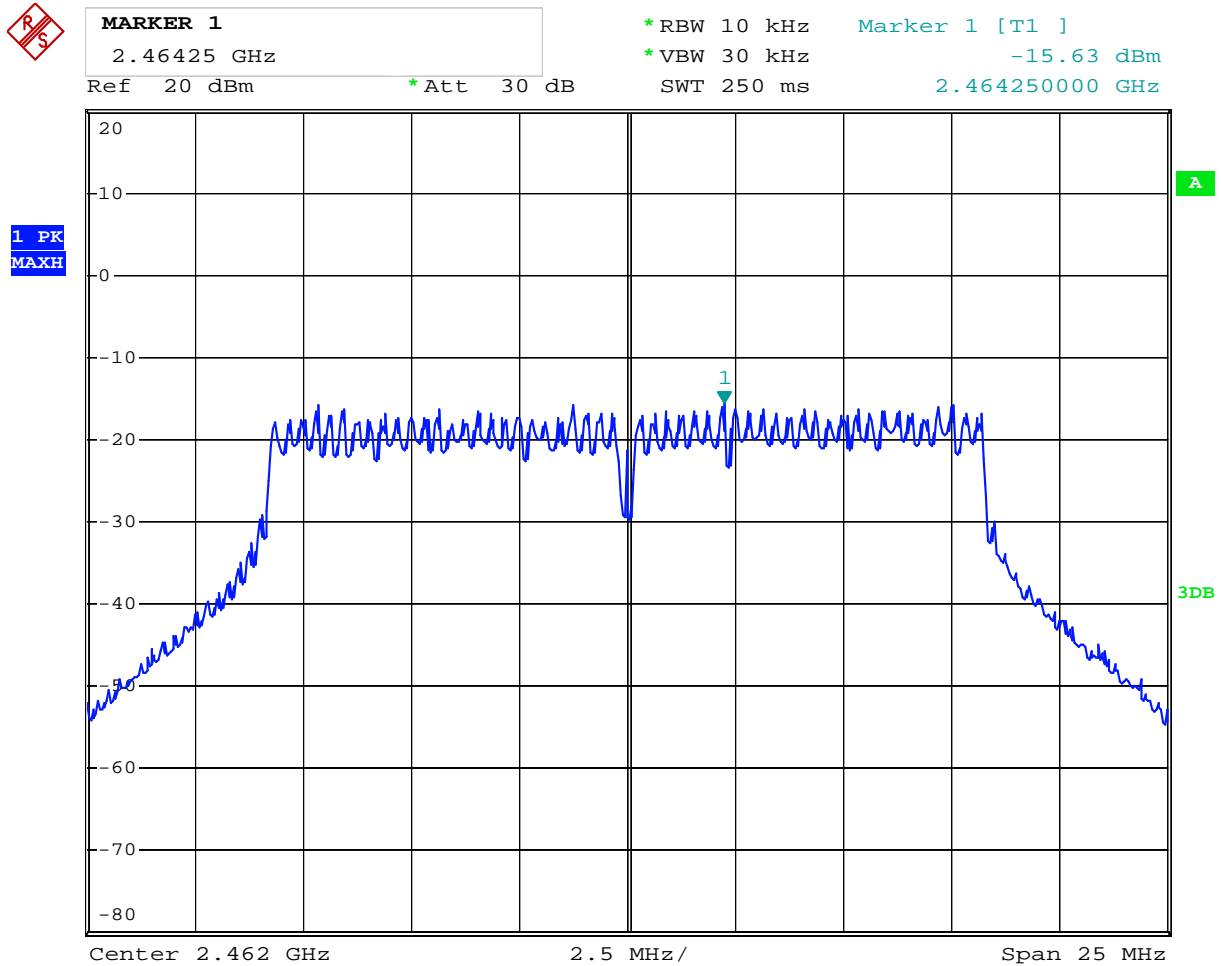


Date: 22.DEC.2012 11:51:53

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9. 802.11g at 6 Mbps of CH11

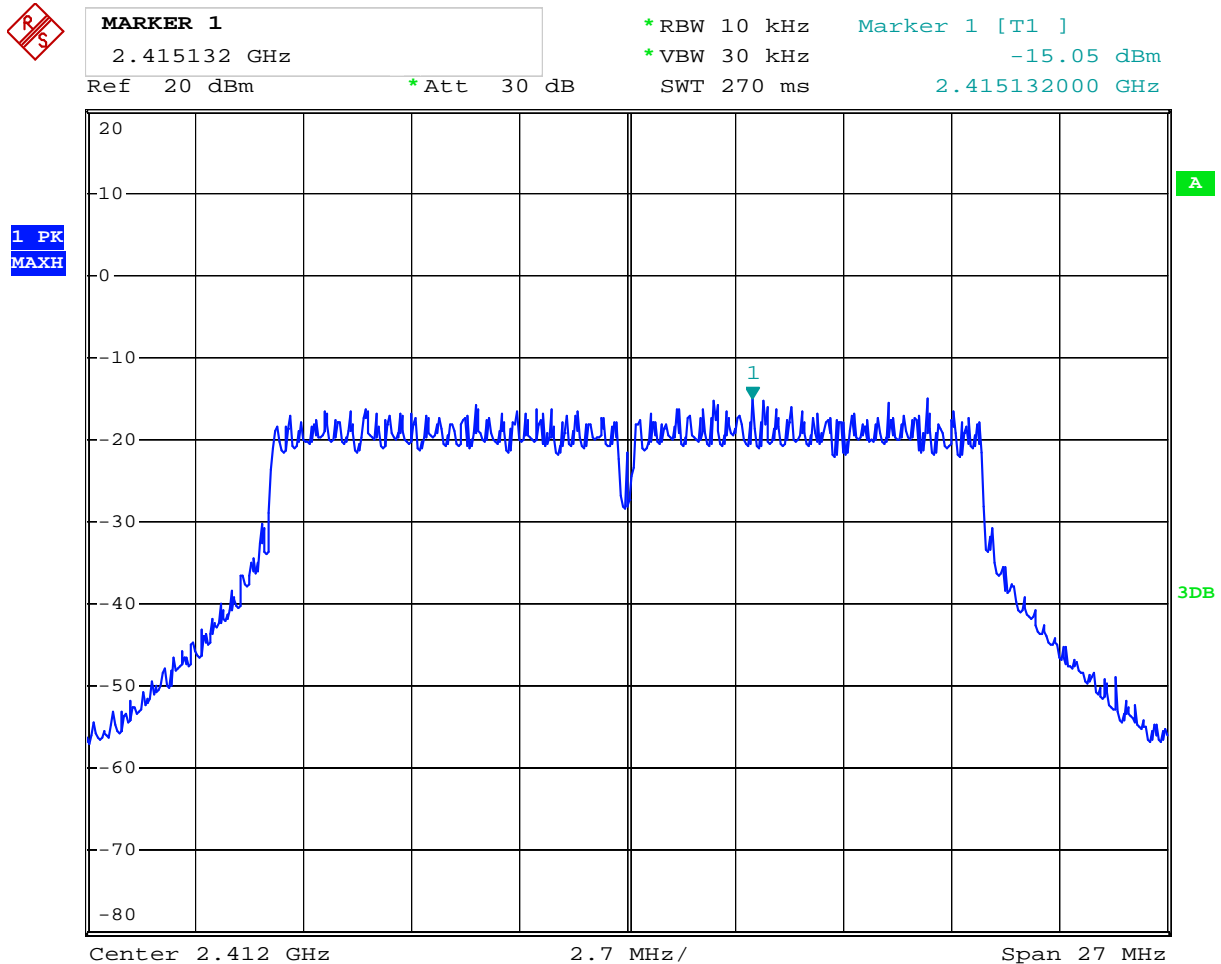


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10. 802.11n at HT20 of CH01

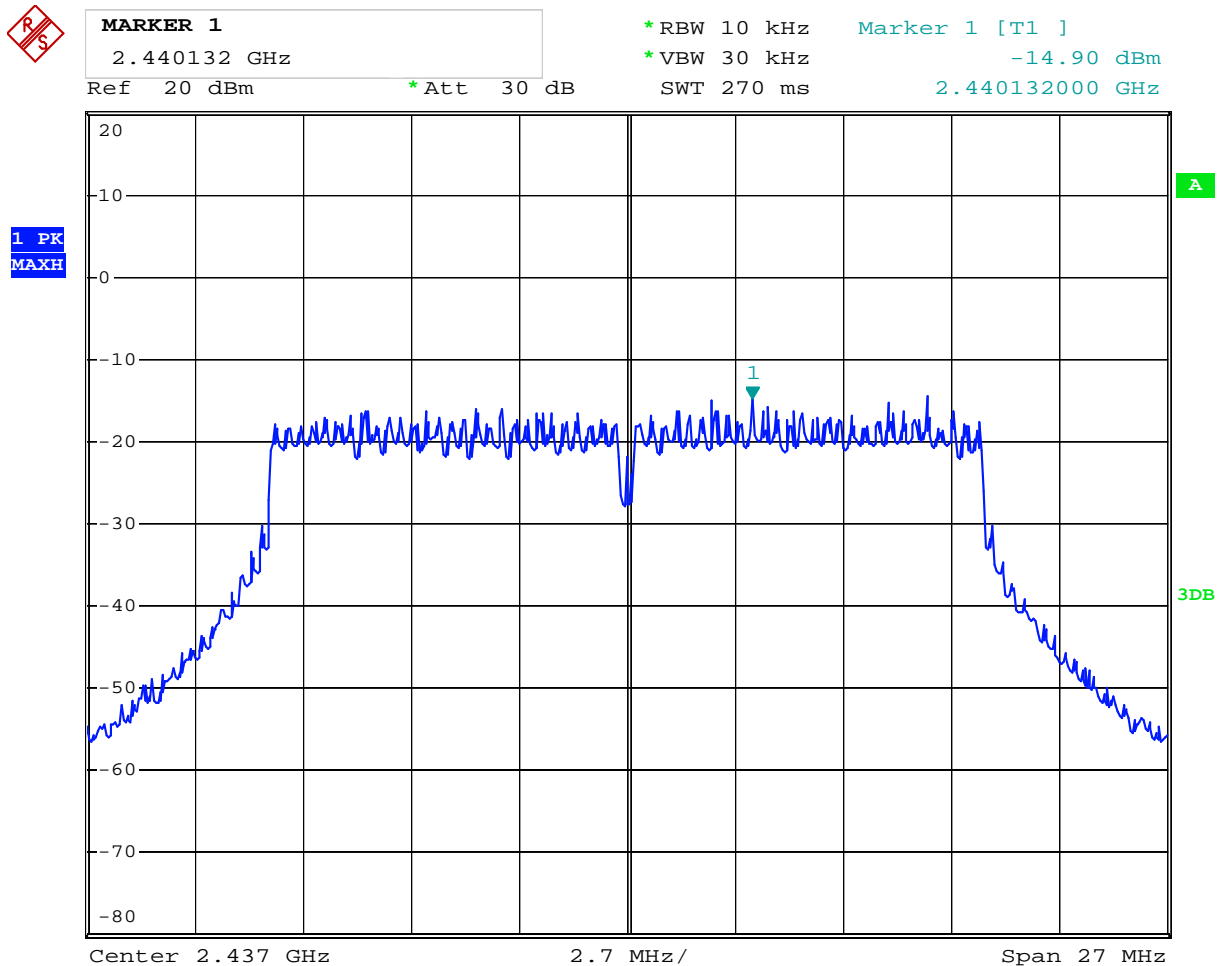


Date: 22.DEC.2012 11:54:42

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11. 802.11n at HT20 of CH06

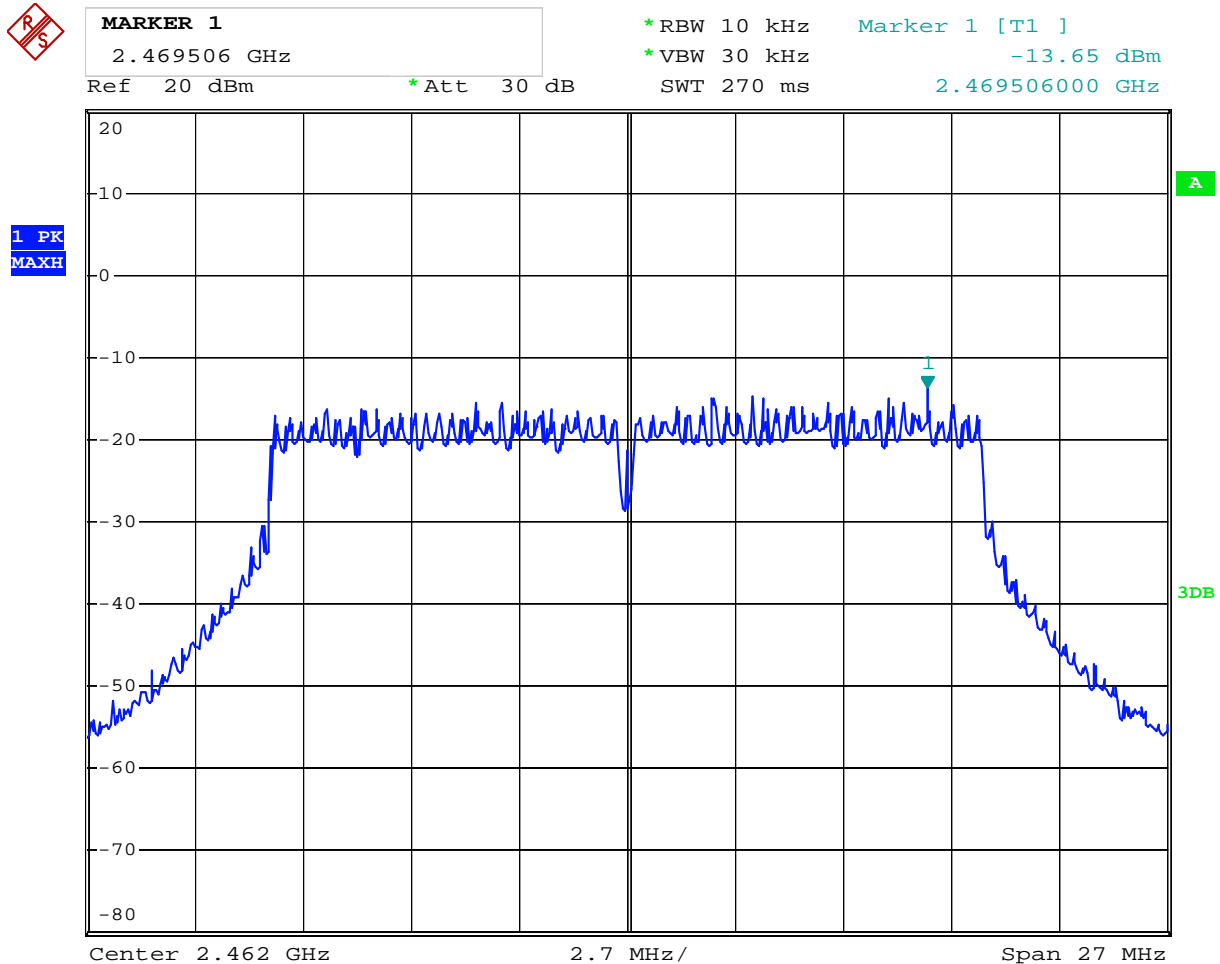


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12. 802.11n at HT20 of CH11



Date: 22.DEC.2012 11:56:08

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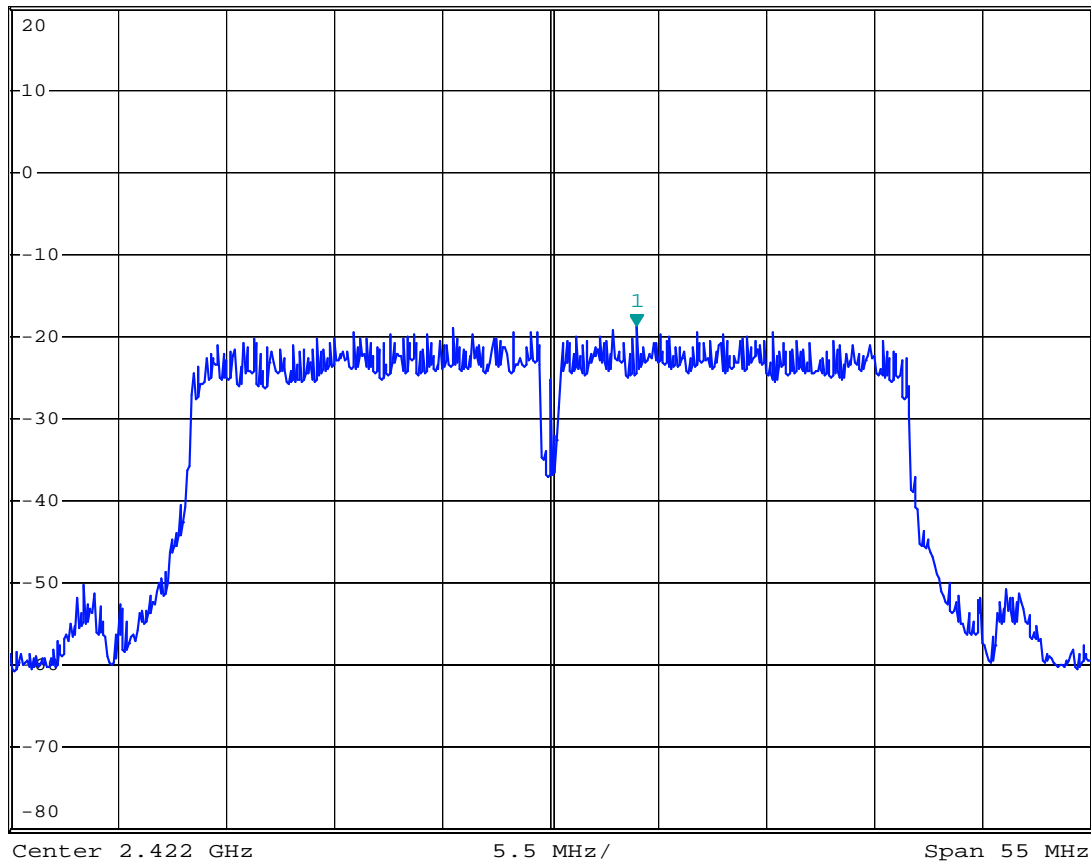
13. 802.11n at HT40 of CH01



MARKER 1
2.4264 GHz
Ref 20 dBm * Att 30 dB

* RBW 10 kHz Marker 1 [T1]
* VBW 30 kHz -18.73 dBm
SWT 560 ms 2.426400000 GHz

1 PK
MAXH



Date: 22.DEC.2012 13:52:57

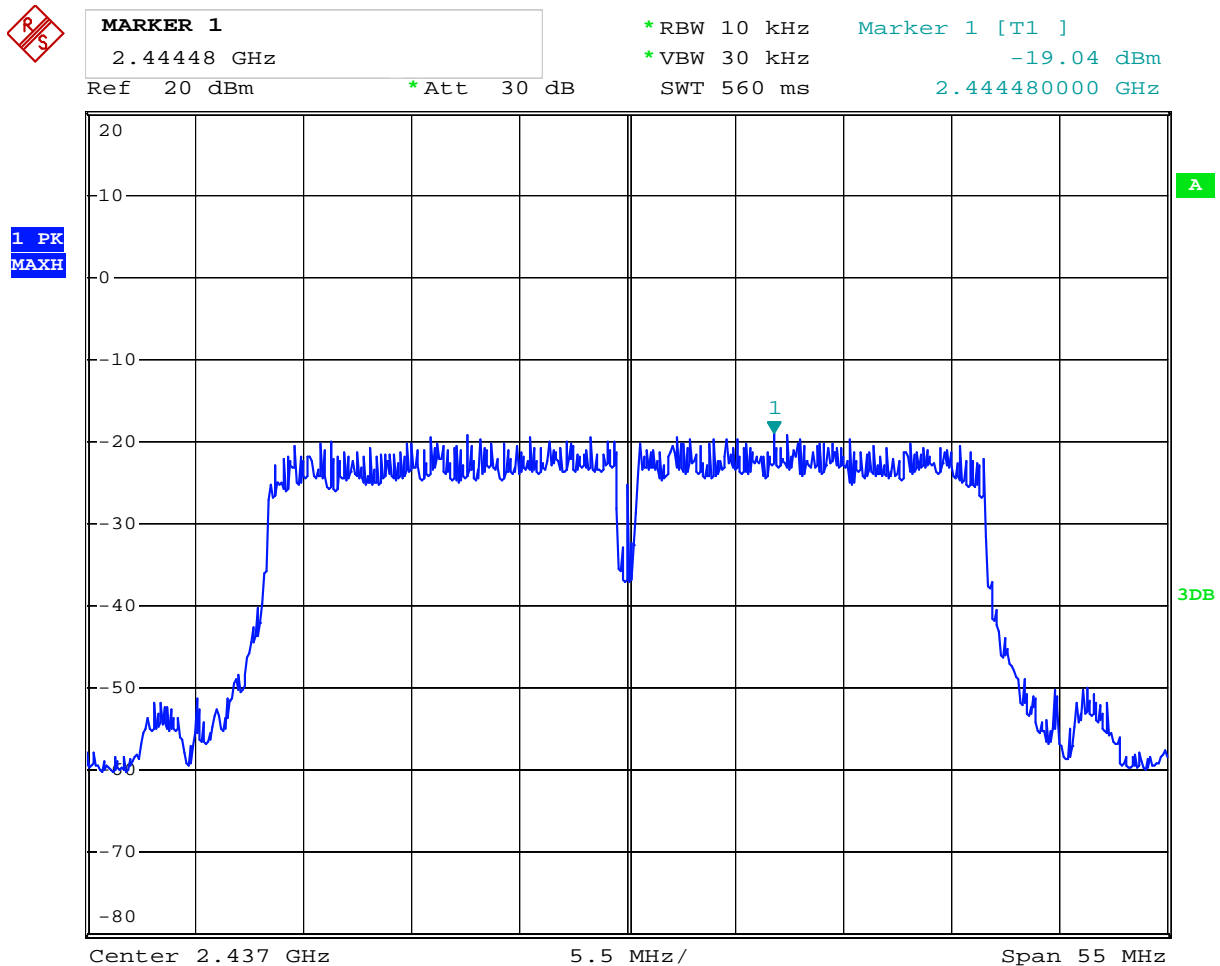
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14. 802.11n at HT40 of CH04



Date: 22.DEC.2012 13:54:08

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15. 802.11n at HT40 of CH07



MARKER 1

2.4564 GHz

Ref 20 dBm

* Att 30 dB

* RBW 10 kHz

* VBW 30 kHz

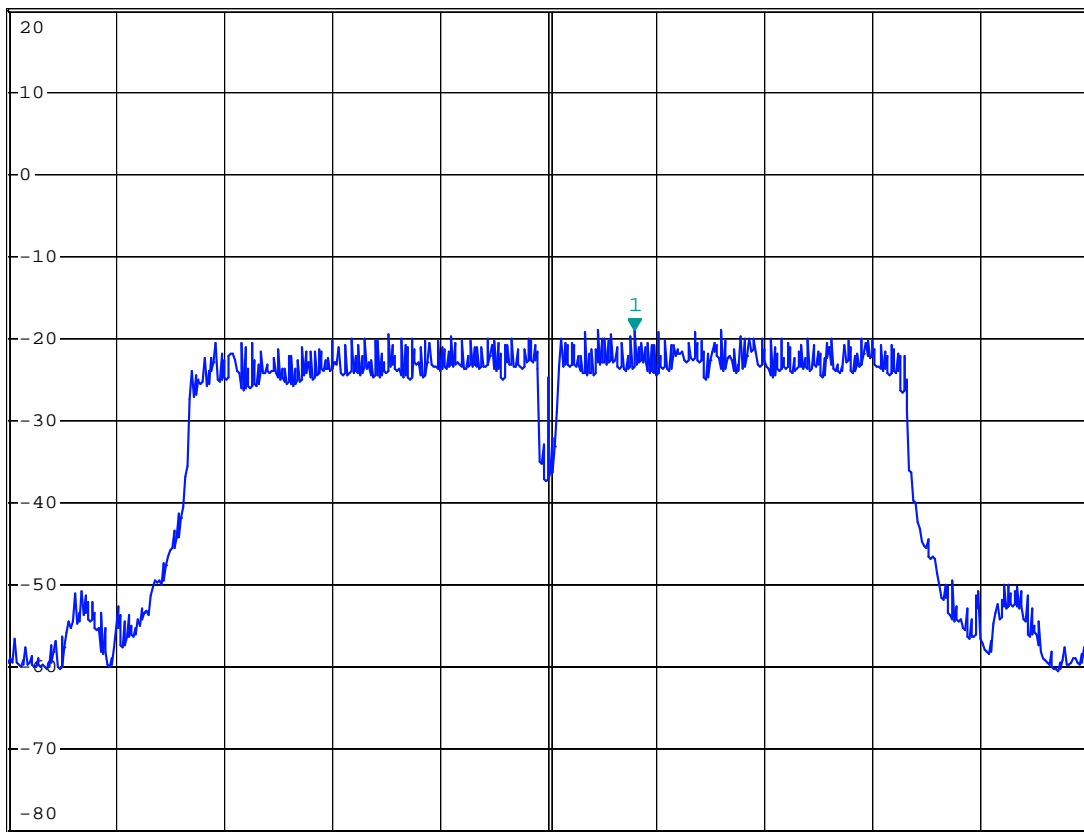
SWT 560 ms

Marker 1 [T1]

-19.02 dBm

2.456400000 GHz

1 PK
MAXH



Center 2.452 GHz

5.5 MHz/

Span 55 MHz

Date: 22.DEC.2012 13:55:02

The report refers only to the sample tested and does not apply to the bulk.

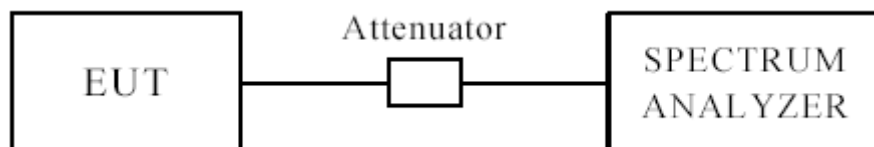
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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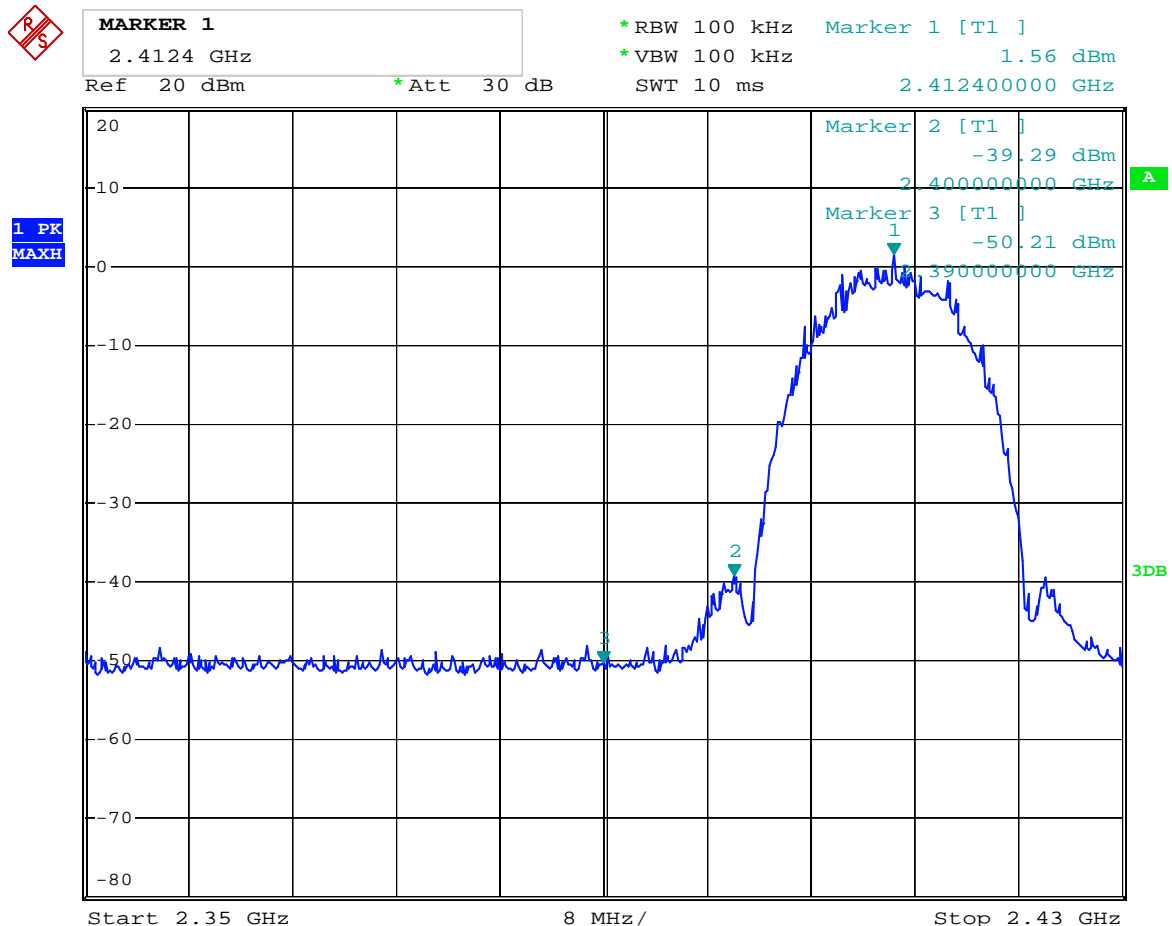
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	46.19	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	40.61	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 14:01:25

Note: The Max. FS in Restrict Band are measured in conventional method.

The report refers only to the sample tested and does not apply to the bulk.

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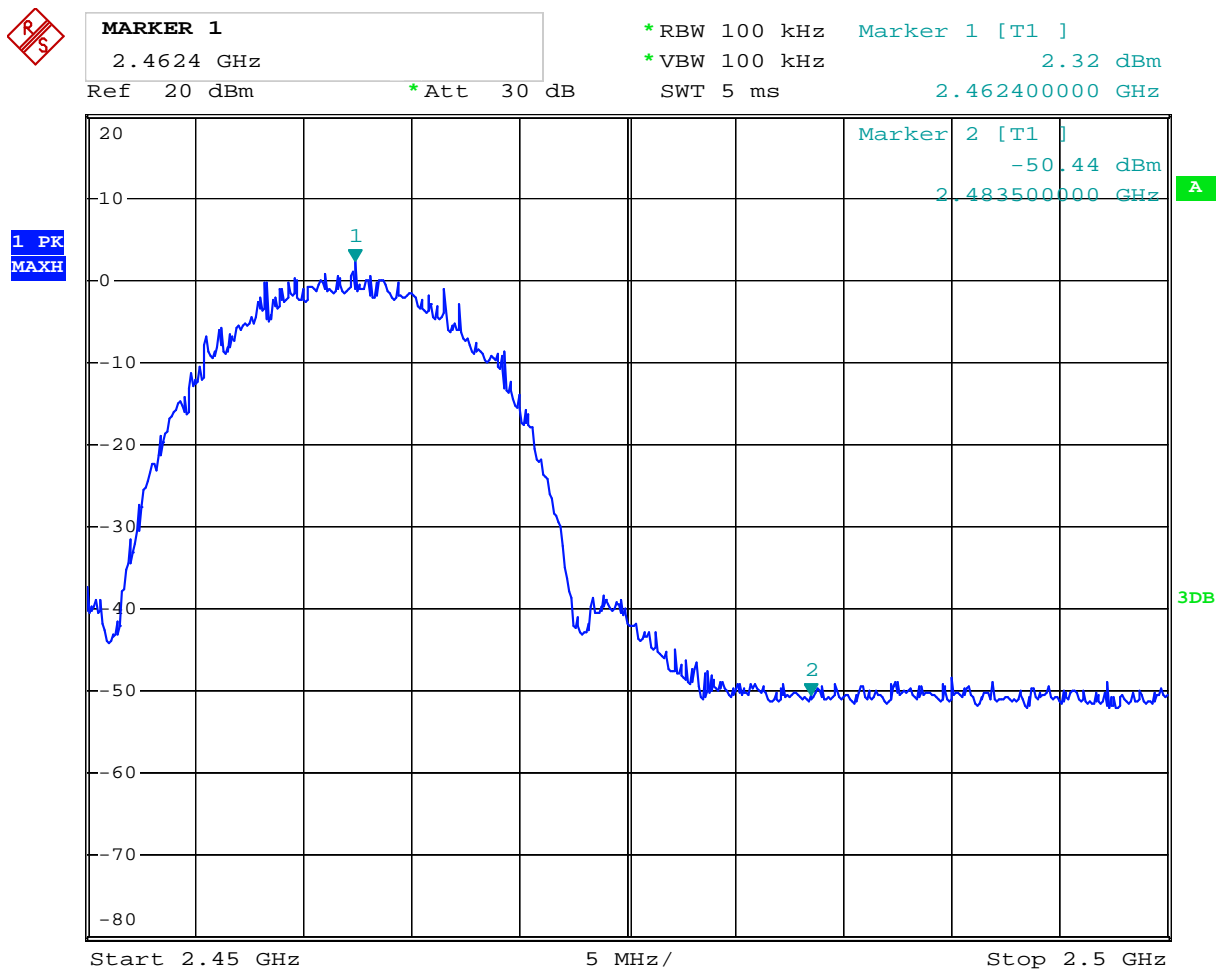


CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.16	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 13:59:26

Note: The Max. FS in Restrict Band are measured in conventional method.

For 802.11b mode

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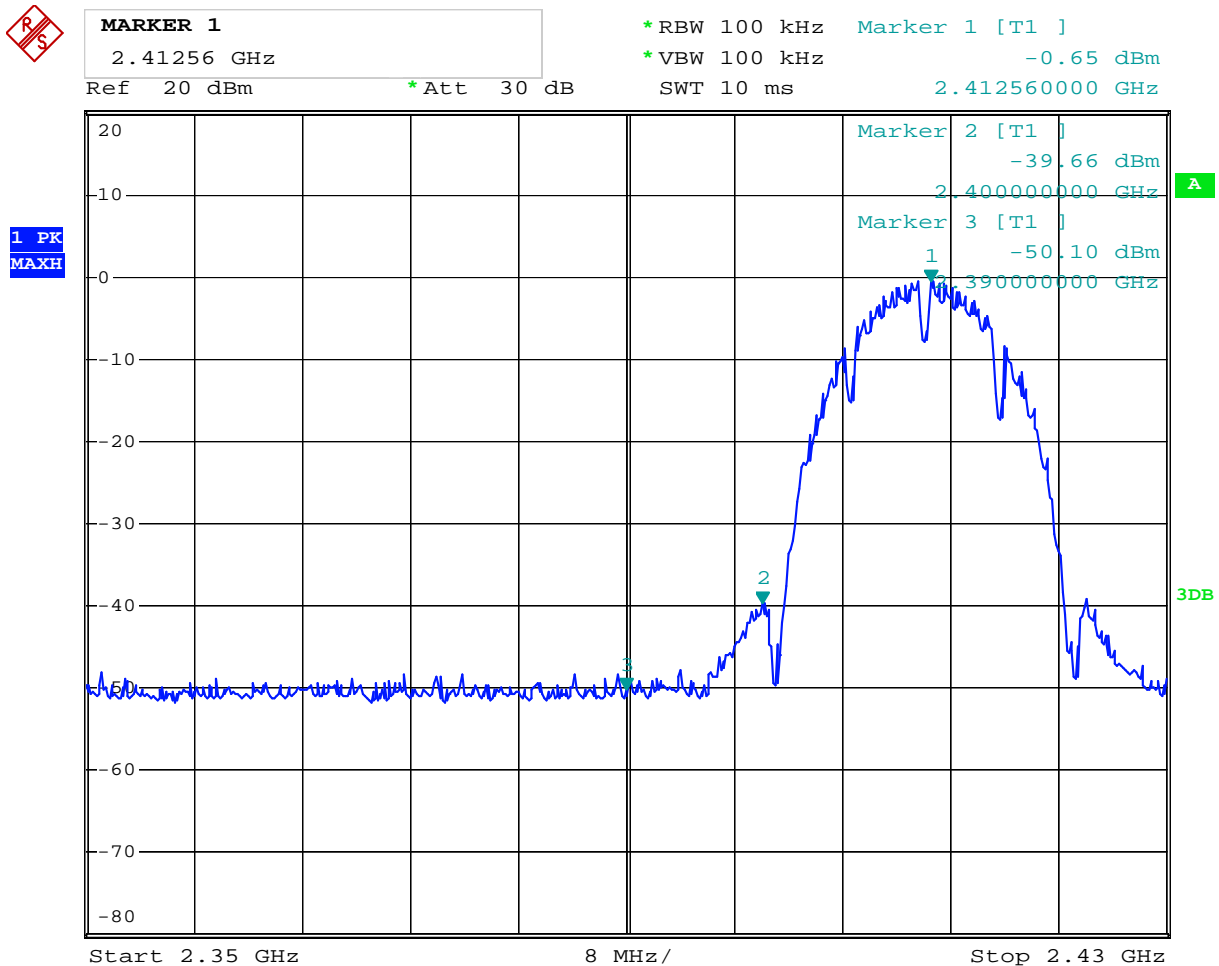


CH01 at 1Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	46.29	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	41.60	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 14:01:57

Note: The Max. FS in Restrict Band are measured in conventional method.

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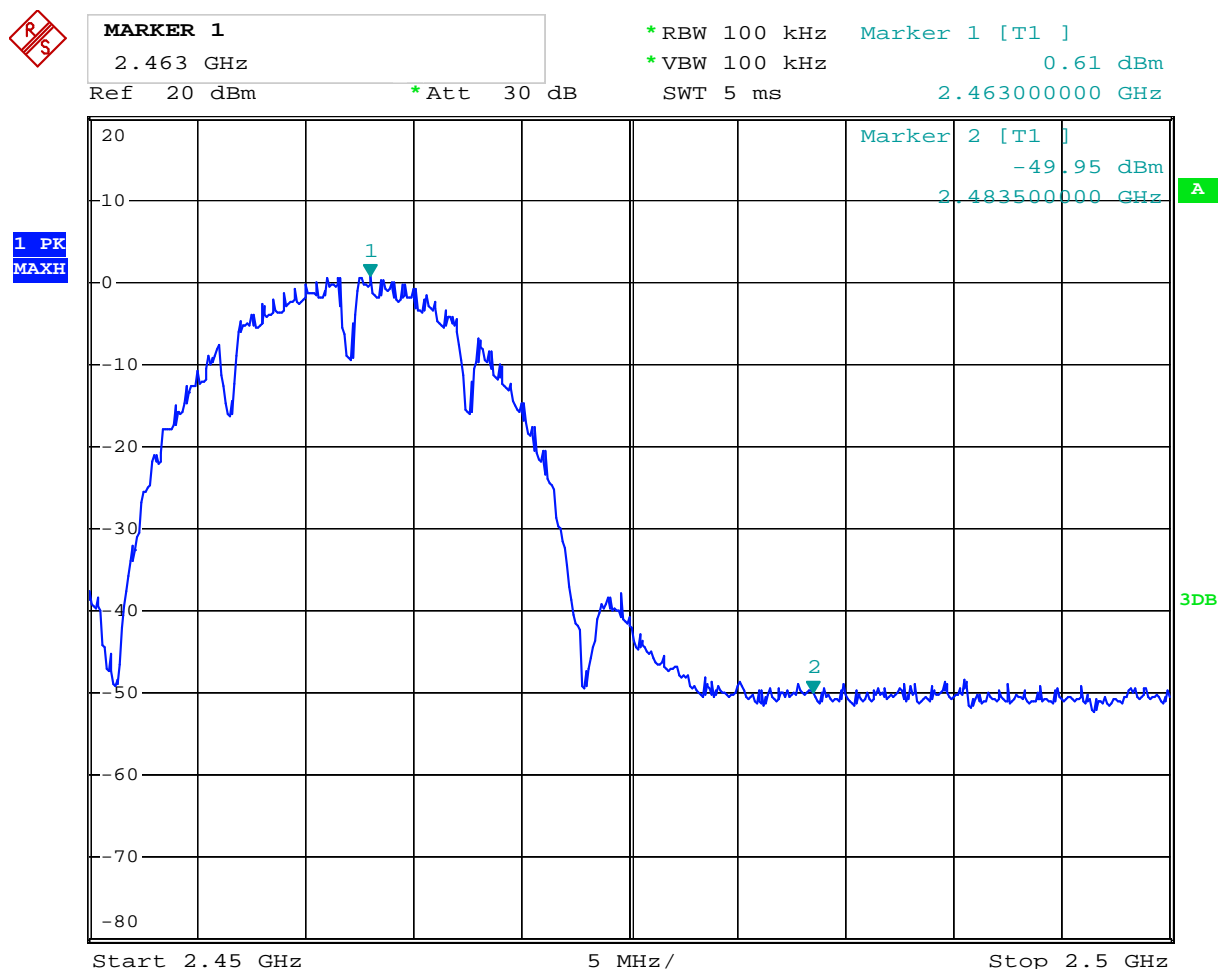


CH11 at 1Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera	Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	Keeping Transmitting	Input Voltage	AC 120V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
2483.5	PK (dBμV/m)	40.81	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 13:58:55

Note: The Max. FS in Restrict Band are measured in conventional method.

For 802.11g mode

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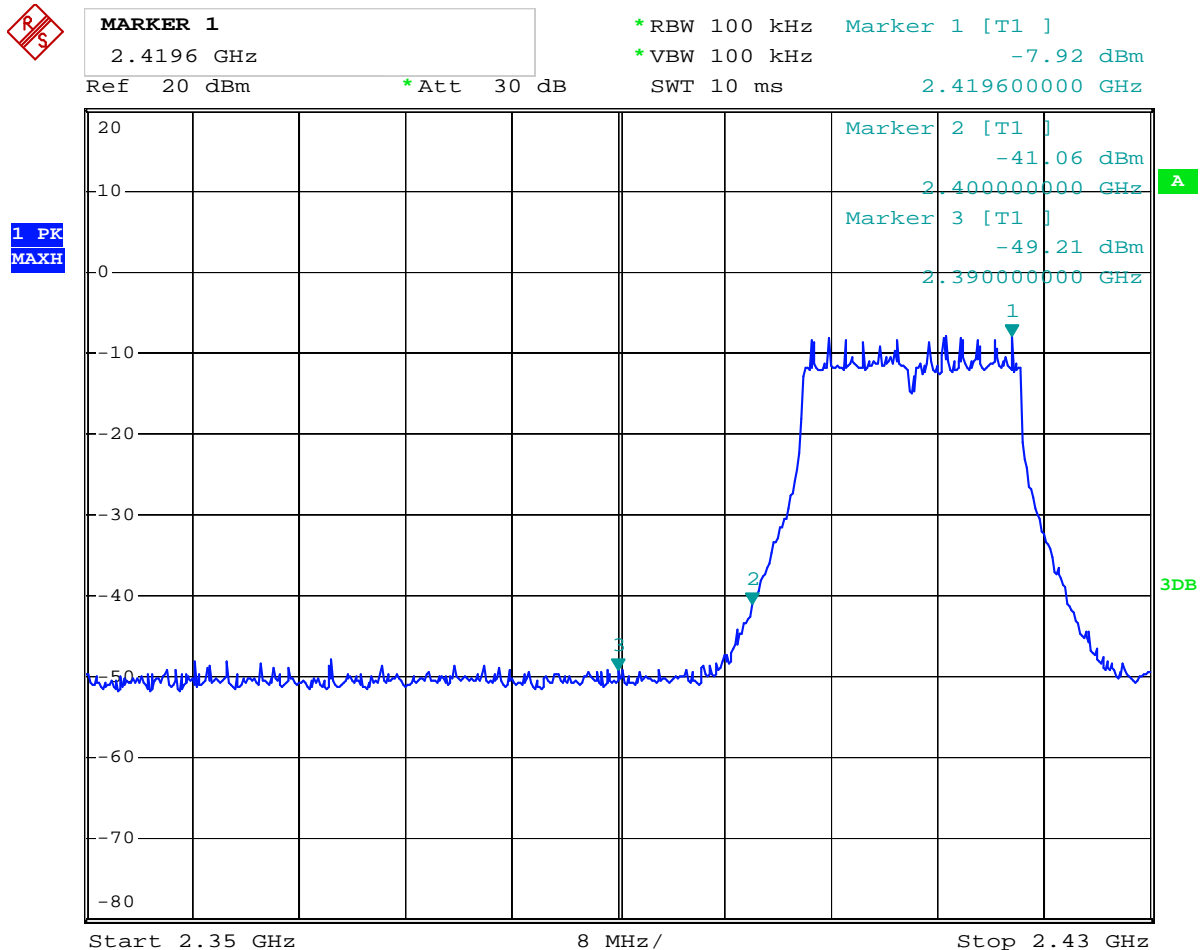


CH01 at 6Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBμV/m)	46.68	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2390	PK (dBμV/m)	41.06	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 14:00:47

Note: The Max. FS in Restrict Band are measured in conventional method.

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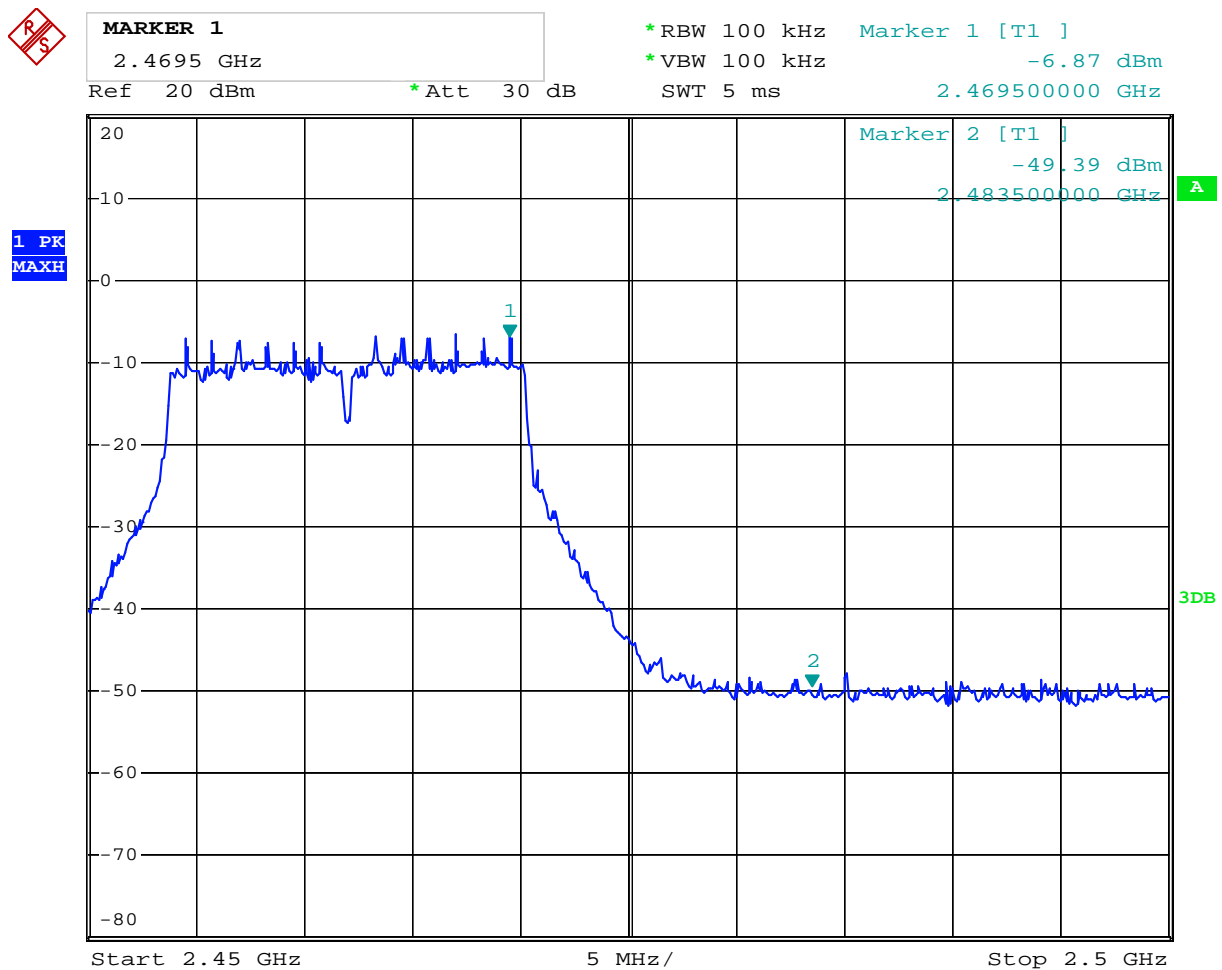


CH11 at 6Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	Keeping Transmitting		Input Voltage	AC 120V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2483.5	PK (dBμV/m)	41.26	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

Test Figure:



Date: 22.DEC.2012 13:59:59

Note: The Max. FS in Restrict Band are measured in conventional method.

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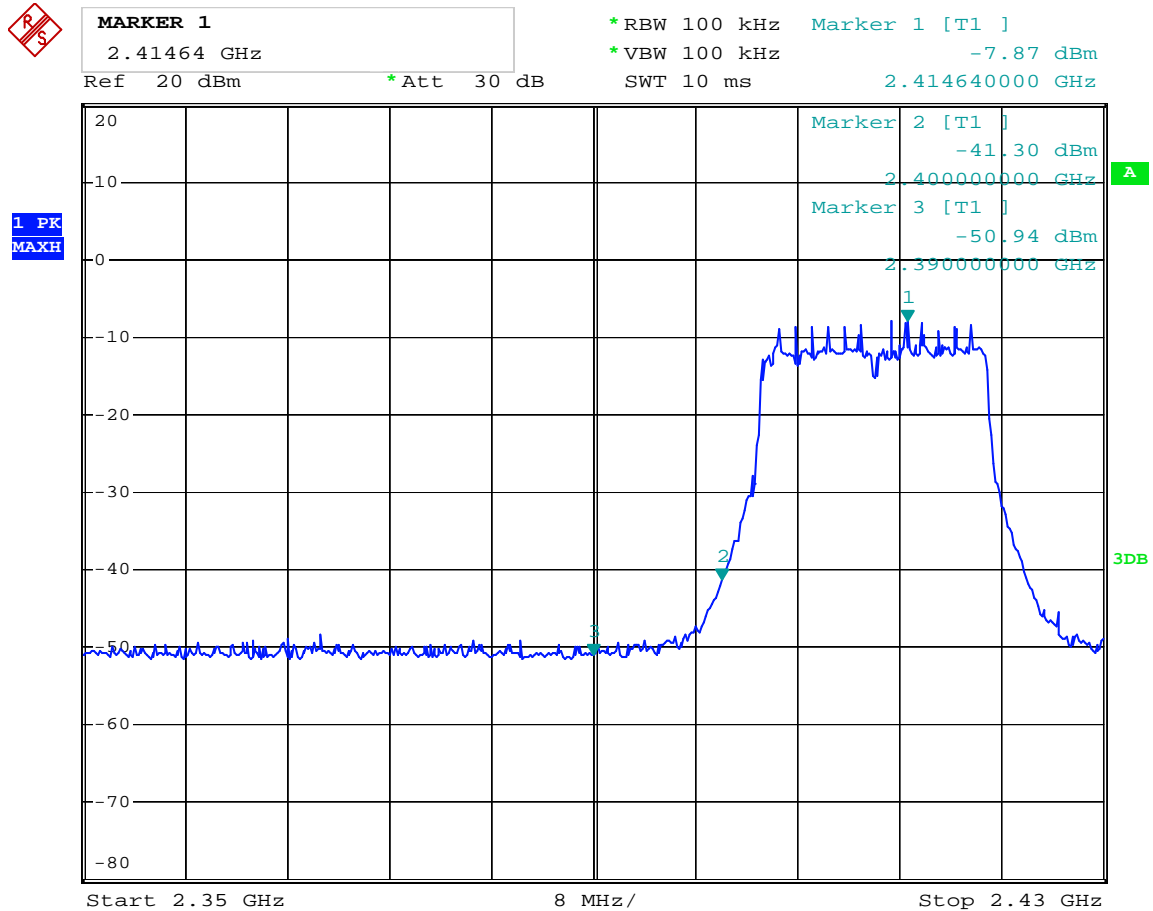
For 802.11n (HT20) mode

CH01 at 65Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	Keeping Transmitting		Input Voltage	AC 120V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2400	PK (dBμV/m)	47.08	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
2390	PK (dBμV/m)	41.36	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

Test Figure:



Date: 22.DEC.2012 14:02:37

Note: The Max. FS in Restrict Band are measured in conventional method.

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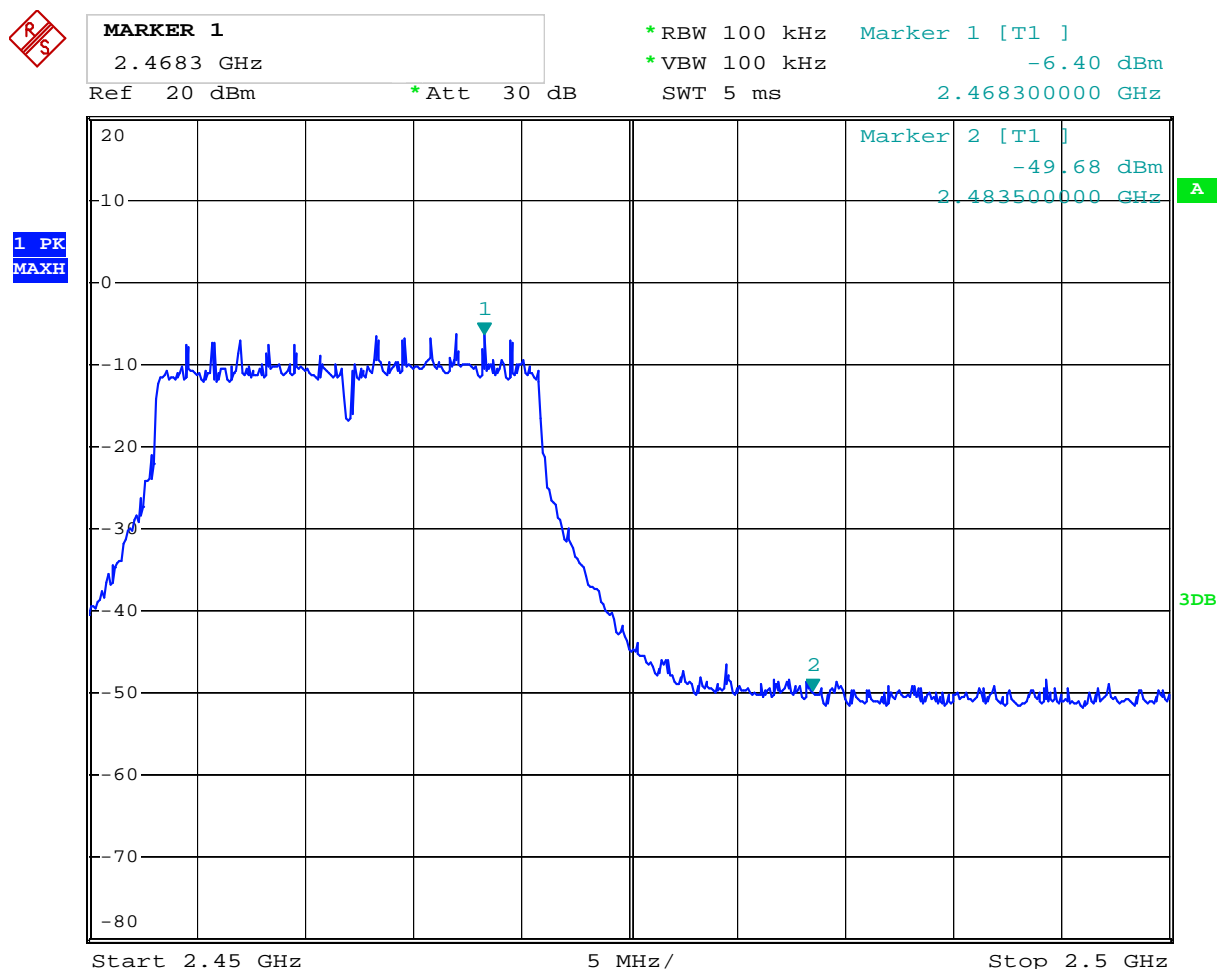


CH11 at 65Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	40.78	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 13:57:31

Note: The Max. FS in Restrict Band are measured in conventional method.

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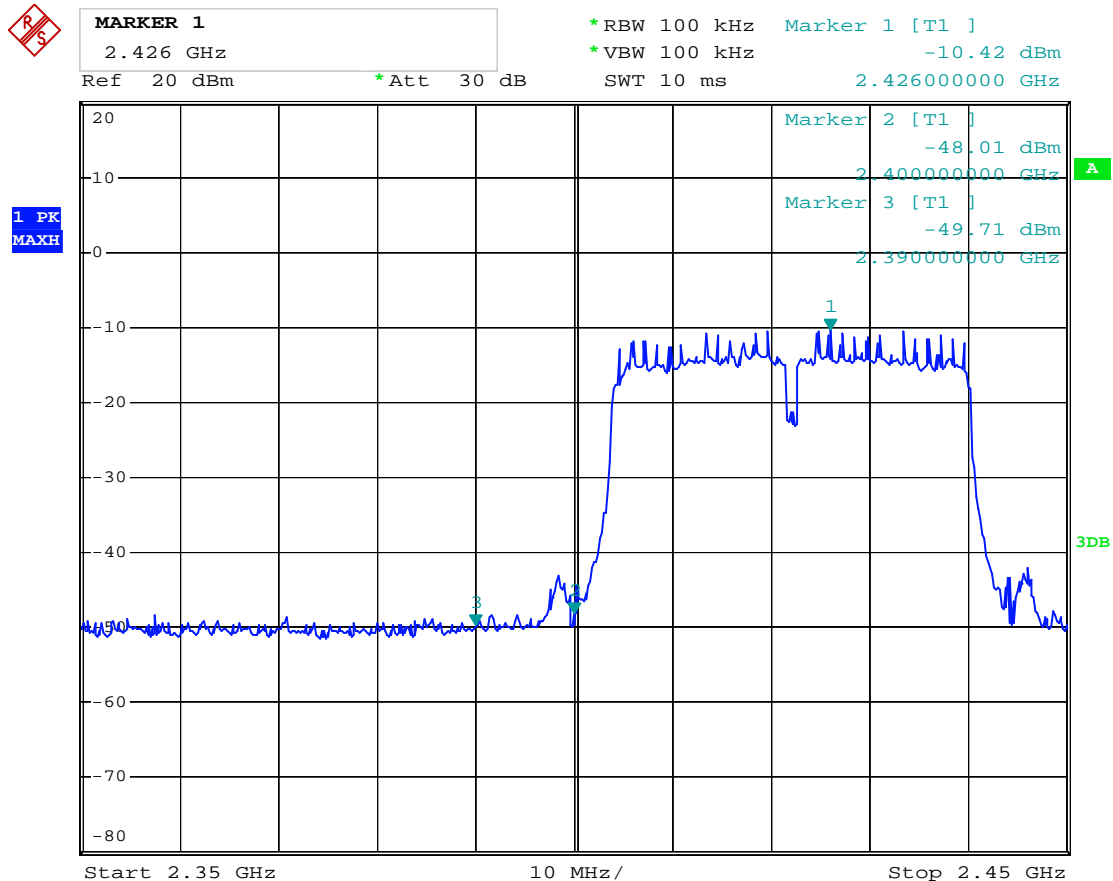
For 802.11n (HT40) mode

CH01 at 65Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322	
Mode	Keeping Transmitting		Input Voltage	AC 120V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2400	PK (dBμV/m)	41.19	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
2390	PK (dBμV/m)	40.58	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

Test Figure:



Date: 22.DEC.2012 14:03:38

Note: The Max. FS in Restrict Band are measured in conventional method.

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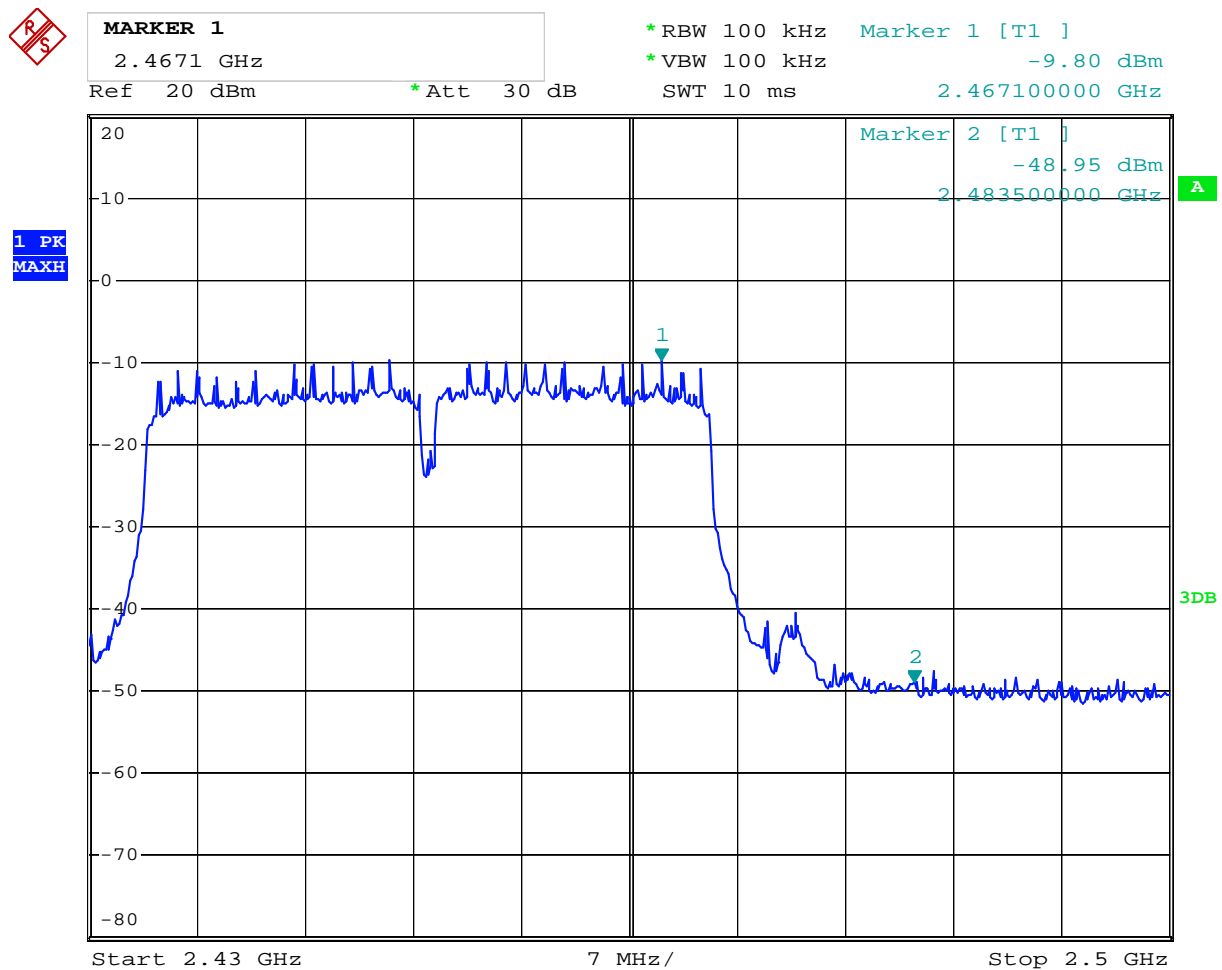


CH7 at 65Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Cloud Camera		Model	FI-320W,FI-320WP,FI-321,FI321N,FI-322
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	41.03	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 22.DEC.2012 13:55:55

Note: The Max. FS in Restrict Band are measured in conventional method.

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11.0 Antenna Requirement

11.1 Standard Applicable

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 transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Ceramic antennas used. The maximum Gain of the antennas is 3.5dBi.

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12.0 FCC ID Label

FCC ID: RU6-32IPC

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



FCC ID Label Location

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13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Photographs – EUT

Details of: Front view



Details of: Rear view



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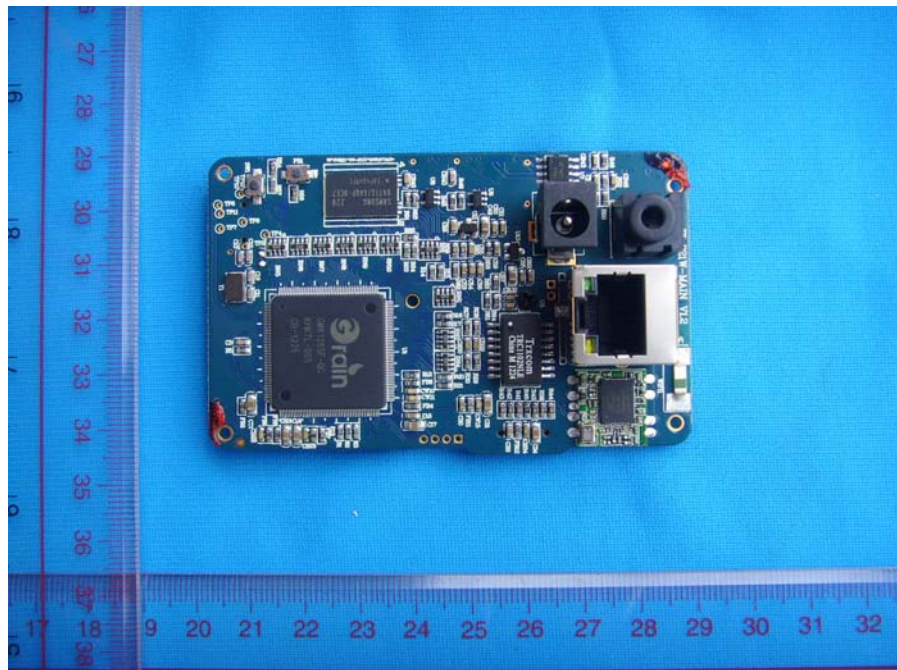
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Details of: Internal view 1

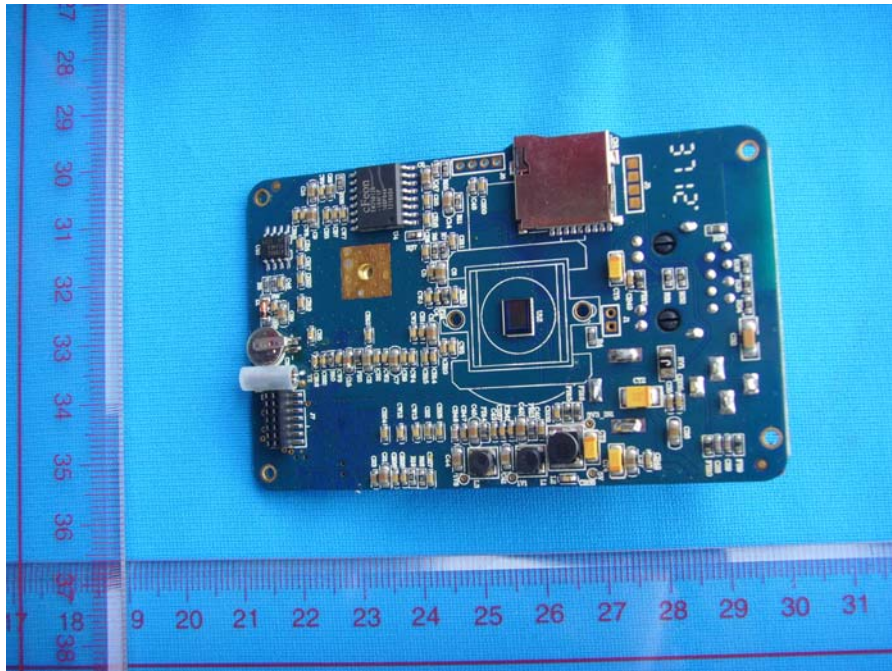


Details of: Main PCB

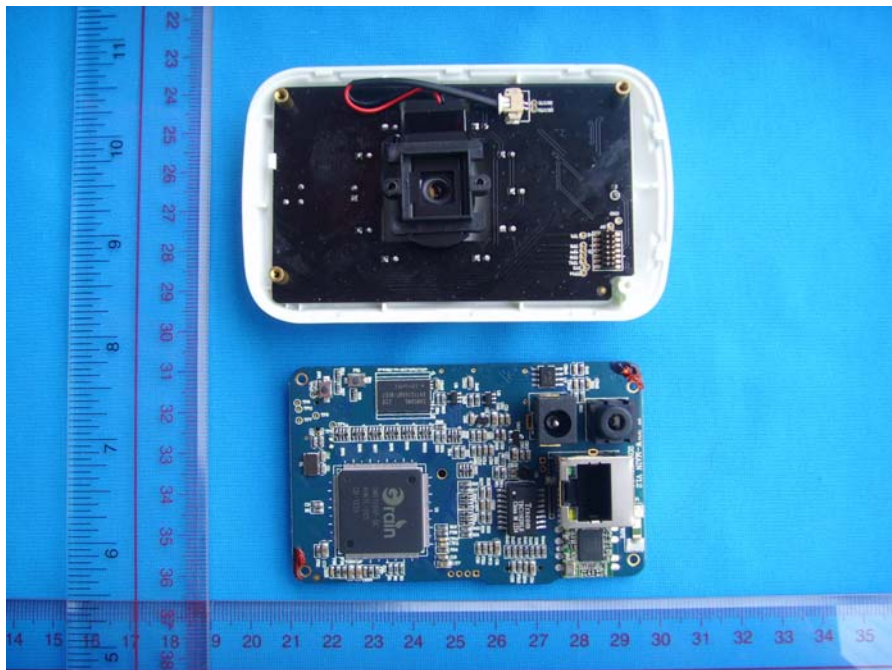


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Details of: Main PCB



Details of: Internal view

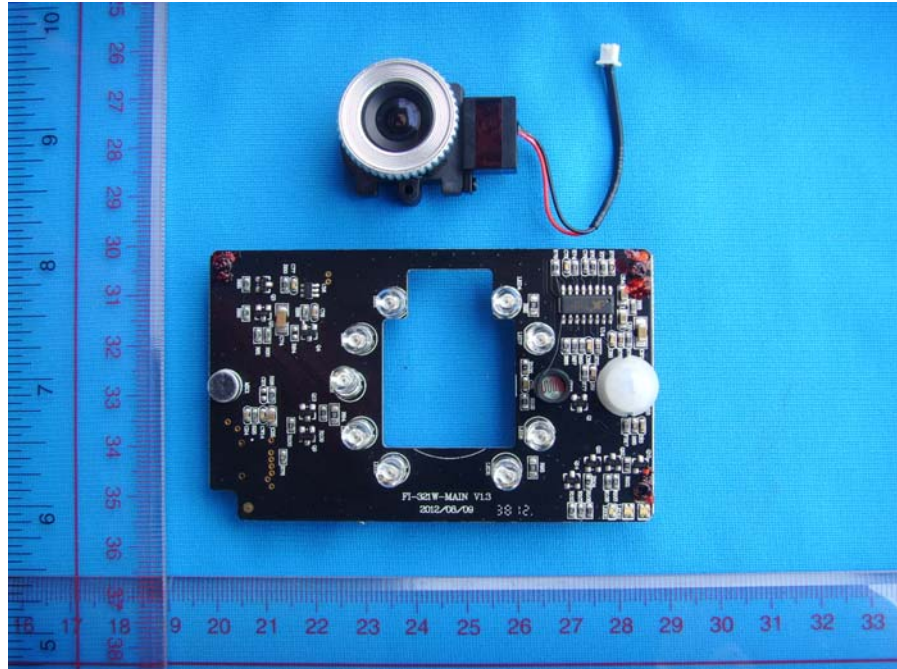


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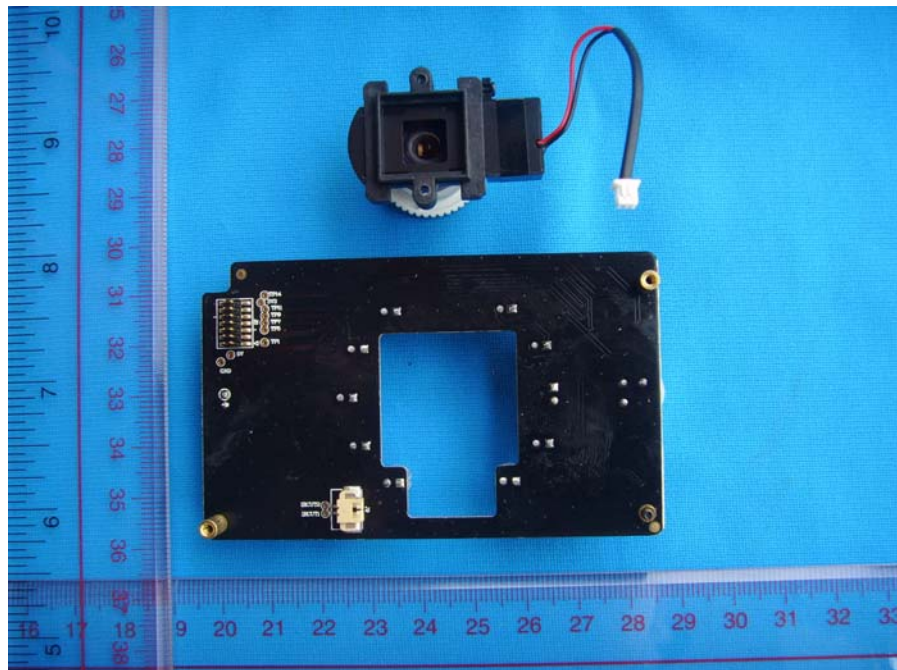
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Details of: Infrared LED PCB and Lens



Details of: Infrared LED PCB and Lens



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Details of: Accessories



End of the report

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