



Report No: FCC 1706166-01 File reference No: 2017-07-10

Applicant: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.

Product: Advertising Displayer

Model No: JAR215-01

Trademark: N/A

Test Standards: FCC Part 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10, FCC Part 15.247 for the

evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: July 10, 2017

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Room 512-519,5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen,

Guangdong China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.

Address: 4/Floor, west block, Longzhu Road, Xin WuCun Industry Building, NanShan District, ShenZhen

Telephone: (755)-26001808-305 Fax: (755)-26002933

1.3 Description of EUT

Product: Advertising Displayer

Manufacturer: GLORY STAR TECHNICS (SHENZHEN) CO., LTD.

Address: 4/Floor, west block, Longzhu Road, Xin WuCun Industry Building, NanShan

District, Shen Zhen

Brand Name: N/A

Model Number: JAR215-01

Additional Model Number: N/A

Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20/HT40) : OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz; IEEE 802.11n (HT40): 2422-2452MHz;

Channel Spacing 5MHz for IEEE 802.11b/g/n(HT20/HT40)

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/HT40: mcs0-mcs7

Frequency Selection By software

Channel Number IEEE 802.11b/g/n (HT20): 11 Channels; IEEE 802.11n (HT40): 7 Channels

Antenna: Integral Antenna and the maximum Gain of this antenna is 2.0dBi;

Power Adapter Model: LYD1205000UA;

Input: 100-240V, 50/60Hz, 1.6A; Output: 12V, 5A

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

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Submitted Sample: 2 Samples

1.5 Test Duration 2017-04-20 to 2017-07-09

1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment						
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	R&S	ESPI 3	100379	2016-08-22	2017-08-21	
TWO	R&S	EZH3-Z5	100294	2016-08-22	2017-08-21	
Line-V-NETW		EZH3-Z3	100294	2010-08-22	2017-08-21	
TWO	R&S	EZH3-Z5	100253	2016-08-22	2017-08-21	
Line-V-NETW		EZH3-Z3	100255	2010-08-22	2017-08-21	
	R&S					
Ultra Broadband		HL562	100157	2016-08-23	2017-08-22	
ANT						
	R&S	ESDV	100008	2016-08-22	2017-08-21	
ESDV Test Receiver			10000			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2016-08-22	2017-08-21	
System Controller	CT	SC100	-			
Printer	EPSON	РНОТО ЕХЗ	CFNH234850			
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-	
Loop Antenna	EMCO	6502	00042960	2016-08-23	2017-08-22	
ESPI Test Receiver	R&S	ESI26	838786/013	2016-08-22	2017-08-21	
3m OATS		1	N/A	2016-08-24	2017-08-23	
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2016-08-24	2017-08-23	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2016-08-24	2017-08-23	
Power meter	Anritsu	ML2487A	6K00003613	2016-08-22	2017-08-21	
Power sensor	Anritsu	MA2491A	32263	2016-08-22	2017-08-21	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2016-08-23	2017-08-21	
LISN	AFJ	LS16C	10010947251	2016-08-22	2017-08-21	
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2016-08-23	2017-08-22	
9*6*6 Anechoic			N/A	2016-08-24	2017-08-23	
EMI Test Receiver	RS	ESCS30	100139	2016-08-22	2017-08-21	
RF Cable	SCHWARZBEC			2016-08-23	2017-08-22	
KF Cable	K			2010-08-23	2017-08-22	
Pre-Amplifier	НР	8447D	2727A05017	2016-08-05	2017-08-04	
Pre-Amplifier	EM	EM30265		2016-08-05	2017-08-04	

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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: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 data rate (worst case) were chosen for full testing (Dutycycle>98%)

IEEE 802.11n (HT40) mode

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

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: mcs0 data rate (worst case) were chosen for full testing (Dutycycle>98%)

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3.0 **Technical Details**

3.1 **Summary of test results**

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107	Conducted Emission Test	PASS	Complies
& 15.207			
	Spectrum bandwidth of a		Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit	Division Multiplex System	PASS	
1 urugrupii 1012 i / (u/(2) 2 i iiii	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output		
15.247(b)	power	PASS	Complies
10.2 1. (%)	Limit: max. 30dBm		
FCC Part 15, Paragraph	Transmitter Radiated	PASS	Complies
15.109,15.205 & 15.209	Emission		
	Limit: Table 15.209		
FCC Part 15, Paragraph	Power Spectral Density	PASS	Complies
15.247(e)	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	PASS	Complies
15.247(d)	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	Table 15.209		

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

EUT Modification 4.0

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

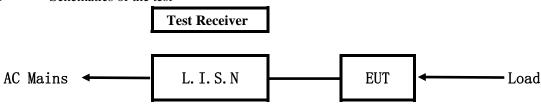
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

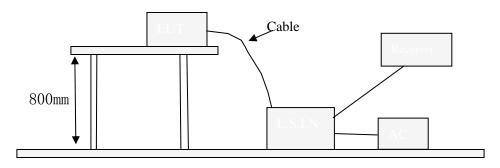


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the Appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Advertising	GLORY STAR TECHNICS	IAD215 01	24 4 CC 14 D 215 01
Displayer	(SHENZHEN) CO., LTD.	JAR215-01	2AACS-JAR215-01

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- 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 and 15.107

8 81							
Frequency	Class A Lim	its (dB \mu V)	Class B Limits (dB µ V)				
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level			
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*			
$0.50 \sim 5.00$	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 WIFI Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1534	36.00	9.84	45.84	65.81	-19.97	QP	
2	0.1534	17.10	9.84	26.94	55.81	-28.87	AVG	
3 *	0.3631	33.80	10.11	43.91	58.66	-14.75	QP	
4	0.3631	20.50	10.11	30.61	48.66	-18.05	AVG	

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

EUT Operating Environment

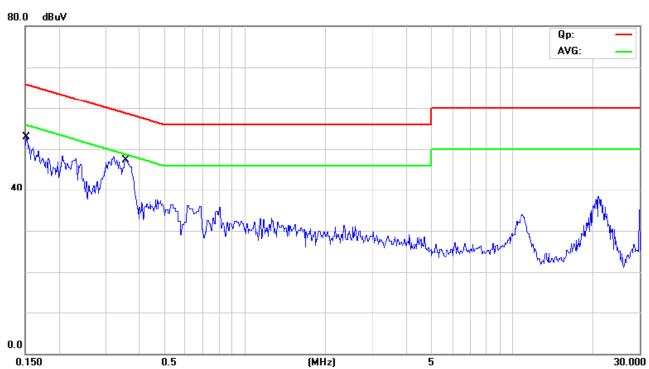
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1	0.1514	36.60	9.84	46.44	65.92	-19.48	QP	
2	0.1514	19.20	9.84	29.04	55.92	-26.88	AVG	
3 *	0.3561	34.80	10.10	44.90	58.82	-13.92	QP	
4	0.3561	17.30	10.10	27.40	48.82	-21.42	AVG	

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 8999988
- (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 C63.10-2013.
- (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=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS 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 Distance = 3m Computer Pre -Amplifier EUT Turn-table Receiver

- 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 and 15.109 and RSS-210

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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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/Vertical (30MHz----1000MHz)

EUT set Condition: **Keep WIFI Transmitting**

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
432.040	41.29	Н	46.00
864.080	43.26	Н	46.00
375.040	42.91	Н	46.00
648.000	42.91	Н	46.00
648.080	41.88	V	46.00
936.080	44.83	V	46.00
864.480	43.89	V	46.00
432.040	43.79	V	46.00

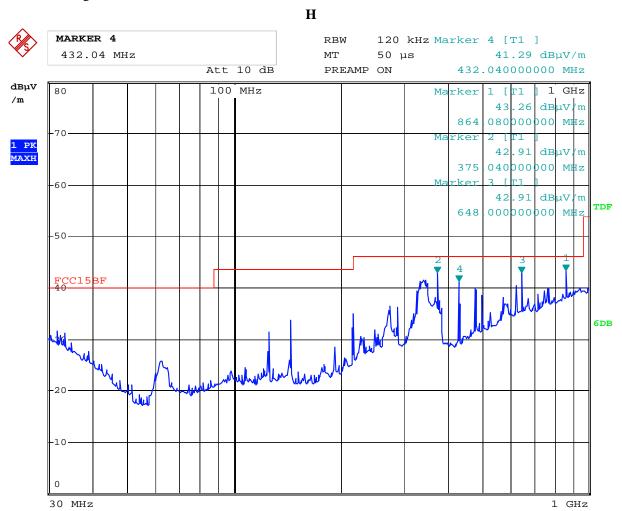
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Test Figure:



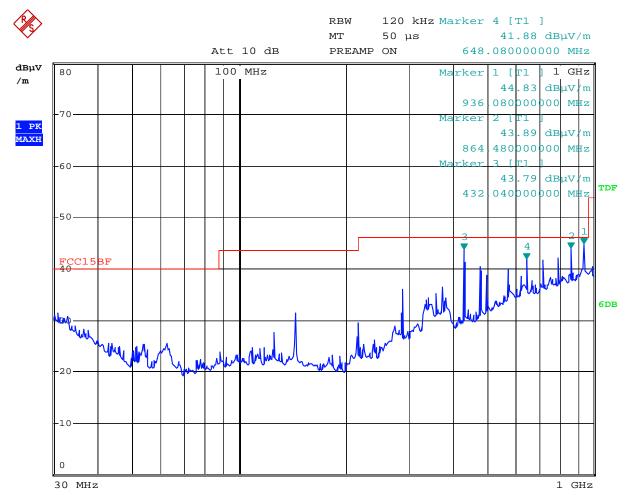
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Test Figure:

V



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Operation Mode: Transmitting under CH01 for 11b at 1Mbps

Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4824.00	51.32 (PK)	Н	74(Peak)/ 54(AV)
4824.00	51.59 (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 1Mbps

Operation Mode: Transmitting under CH06 for 11b at 1Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4874.00	50.51 (PK)	Н	74(Peak)/ 54(AV)
4874.00	50.08 (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 1Mbps

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Operation Mode: Transmitting under CH11 for 11b at 1Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4924	52.29 (PK)	Н	74(Peak)/ 54(AV)
4924	52.13 (PK)	V	74(Peak)/ 54(AV)
7368		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 1Mbps

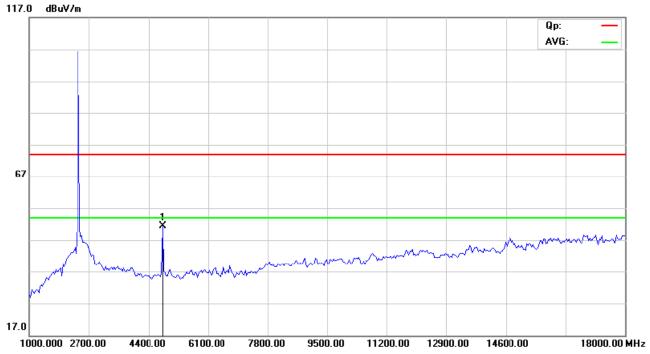
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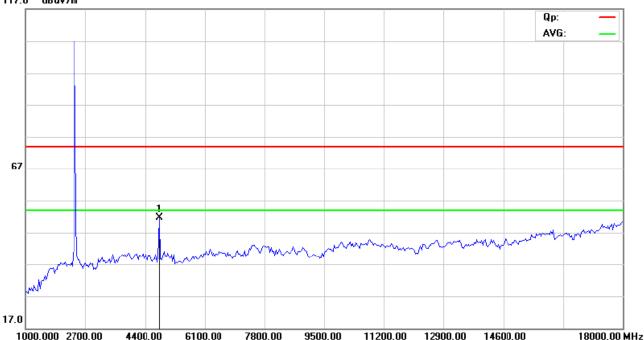
Please refer to the following test plots for details:

CH01 for 11b at 1Mbps: Horizontal



CH01 for 11b at 1Mbps: Vertical

117.0 dBuV/m



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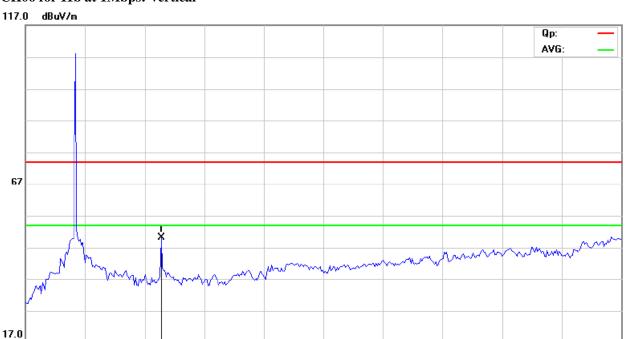
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CH06 for 11b at 1Mbps: Vertical



9500.00

11200.00

12900.00

14600.00

18000.00 MHz

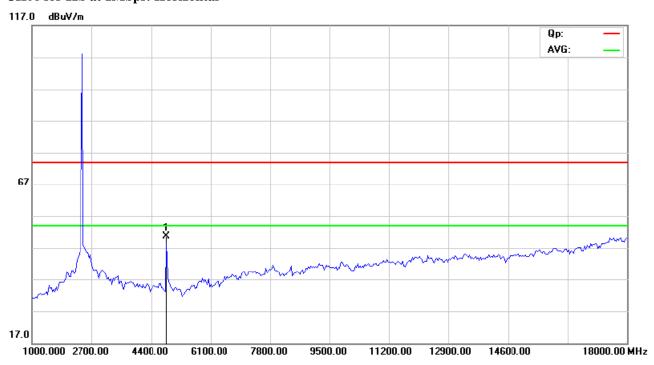
CH06 for 11b at 1Mbps: Horizontal

4400.00

6100.00

7800.00

1000.000 2700.00



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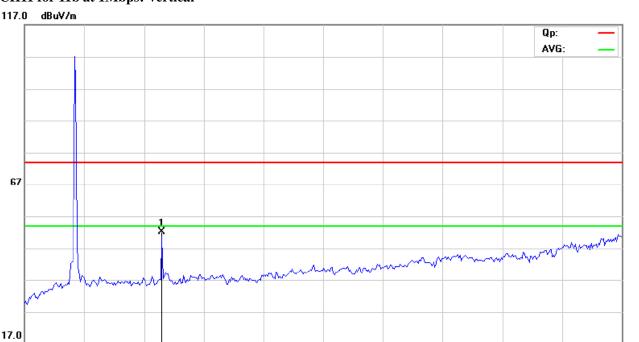
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Date: 2017-07-10



CH11 for 11b at 1Mbps: Vertical



9500.00

11200.00

12900.00

14600.00

18000.00 MHz

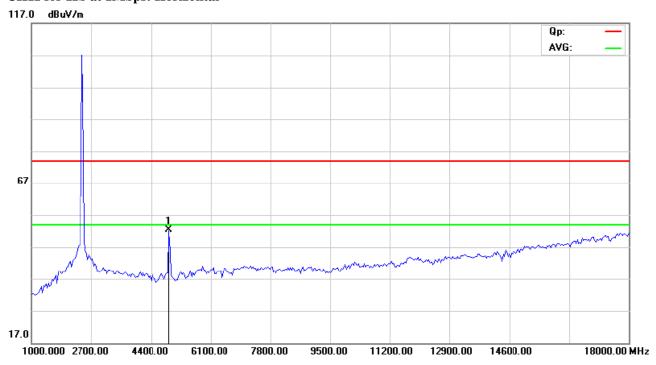
CH11 for 11b at 1Mbps: Horizontal

4400.00

6100.00

7800.00

1000.000 2700.00



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

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Date: 2017-07-10



Operation Mode: Transmitting under CH01 for 11g at 6Mbps

	8	<u> </u>	
Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4824.00	51.28 (PK)	Н	74(Peak)/ 54(AV)
4824.00	51.82 (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 6Mbps

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Date: 2017-07-10



Operation Mode: Transmitting under CH06 for 11g at 6Mbps

	8	0 1	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4874.00	50.70 (PK)	V	74(Peak)/ 54(AV)
4874.00	50.65 (PK)	Н	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 6Mbps

Operation Mode: Transmitting under CH11 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4924	52.08 (PK)	Н	74(Peak)/ 54(AV)
4924	52.14 (PK)	V	74(Peak)/ 54(AV)
7368	1	H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310	1	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 6Mbps

Report No.: FCC1706166-01

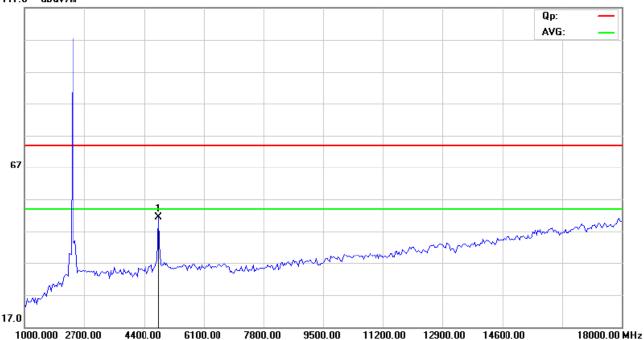
Date: 2017-07-10



Please refer to the following test plots for details:

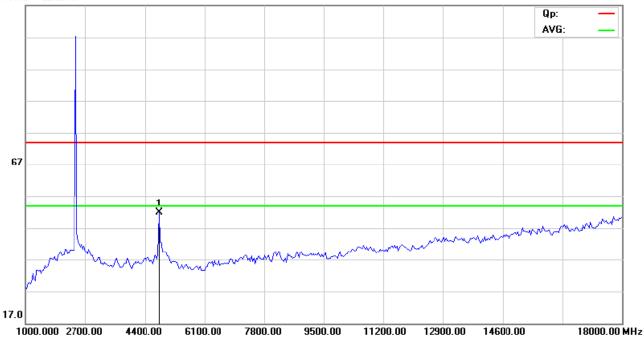
CH01 for 11g at 6Mbps: Horizontal

117.0 dBuV/m



CH01 for 11g at 6Mbps: Vertical

117.0 dBuV/m



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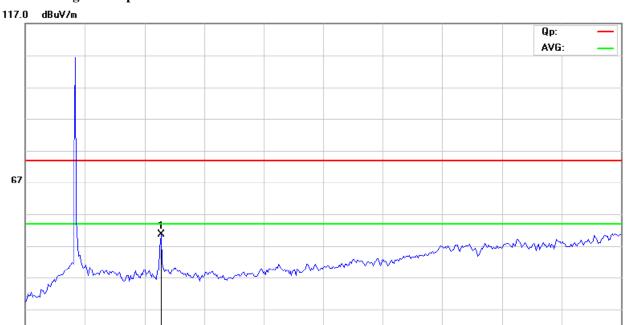
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Date: 2017-07-10



CH06 for 11g at 6Mbps: Vertical



9500.00

11200.00

12900.00

14600.00

18000.00 MHz

CH06 for 11g at 6Mbps: Horizontal

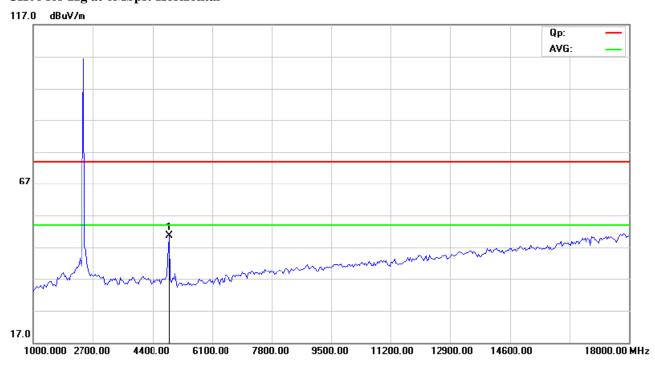
4400.00

6100.00

7800.00

17.0

1000.000 2700.00



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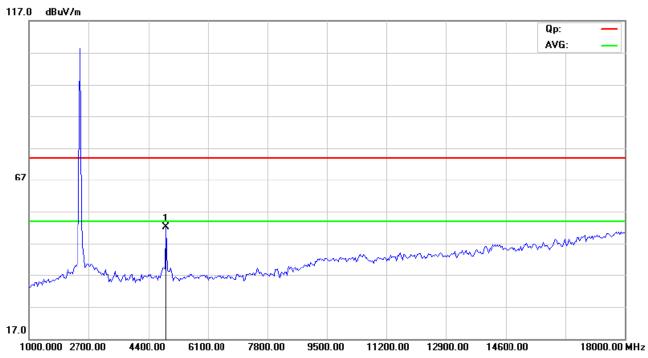
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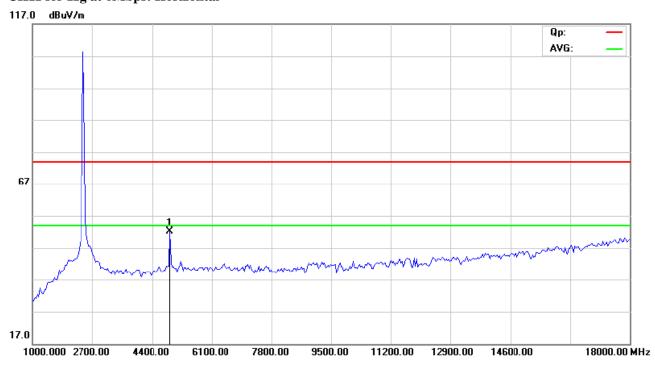
Date: 2017-07-10



CH11 for 11g at 6Mbps: Vertical



CH11 for 11g at 6Mbps: Horizontal



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

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Operation Mode: Transmitting under CH01 for 11n HT20 at mcs0

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	51.35 (PK)	Н	74(Peak)/ 54(AV)
4824.00	51.59 (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 802.11n (HT20) mode mcs0

Operation Mode: Transmitting under CH06 for 11n HT20 at mcs0

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4874.00	50.54 (PK)	Н	74(Peak)/ 54(AV)
4874.00	50.69 (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	1	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 mcs0

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Date: 2017-07-10



Operation Mode: Transmitting under CH11 for 11n HT20 at mcs0

	I		
Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4924	52.69 (PK)	Н	74(Peak)/ 54(AV)
4924	52.64 (PK)	V	74(Peak)/ 54(AV)
7368		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 mcs0

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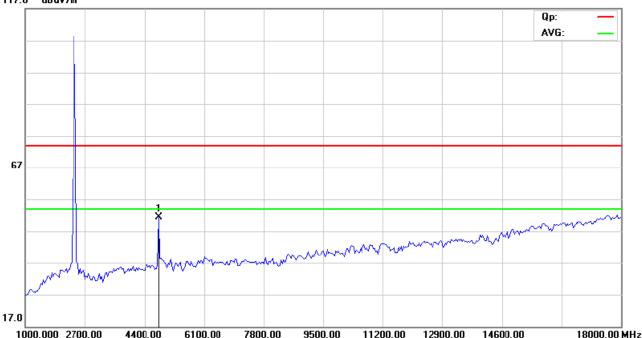
Date: 2017-07-10



Please refer to the following test plots for details:

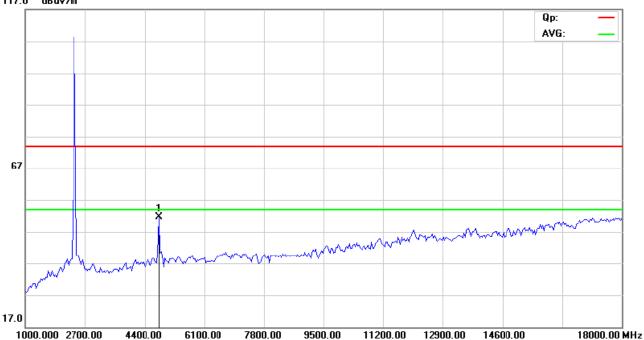
CH01 for 11n HT20 at mcs0: Horizontal

117.0 dBuV/m



CH01 for 11n HT20 at mcs0: Vertical

117.0 dBuV/m



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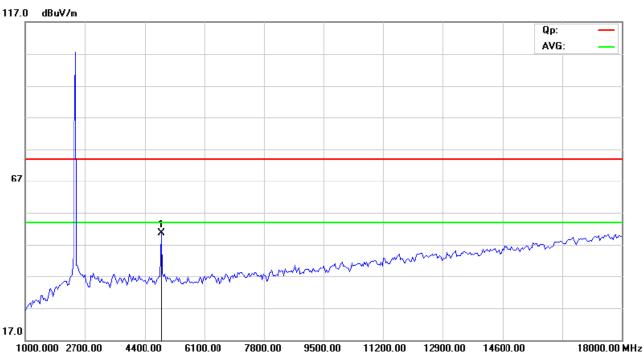
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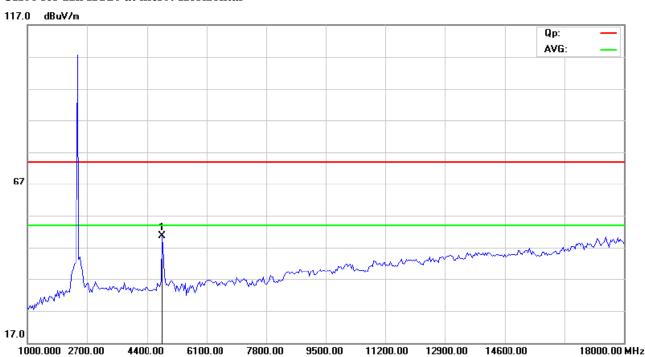
Date: 2017-07-10



CH06 for 11n HT20 at mcs0: Vertical



CH06 for 11n HT20 at mcs0: Horizontal



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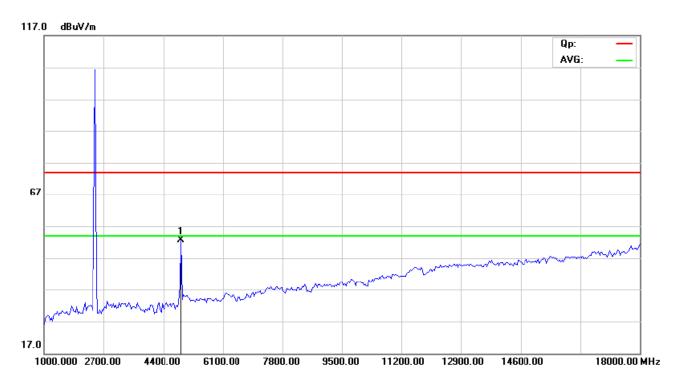
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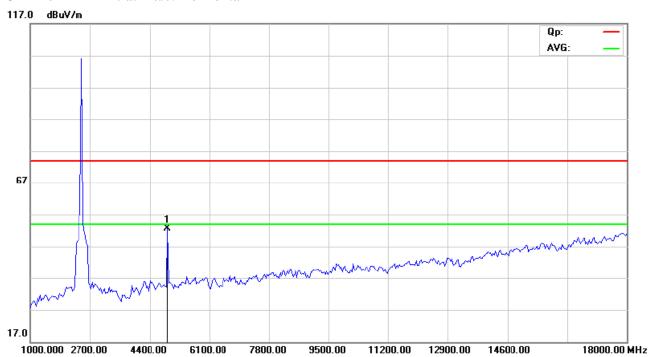
Date: 2017-07-10



CH11 for 11n HT20 at mcs0: Vertical



CH11 for 11n HT20 at mcs0: Horizontal



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

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Operation Mode: Transmitting under CH01 for 11n HT40 at mcs0

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4844.00	50.51 (PK)	Н	74(Peak)/ 54(AV)
4844.00	50.27 (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 mcs0

Operation Mode: Transmitting under CH04 for 11n HT40 at mcs0

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
4874.00	50.66 (PK)	Н	74(Peak)/ 54(AV)
4874.00	50.53 (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 mcs0

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Operation Mode: Transmitting under CH07 for 11n HT40 at mcs0

Frequency (MHz)	Level@3m (dB \mu V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4904	49.82 (PK)	Н	74(Peak)/ 54(AV)
4904	49.58 (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 mcs0

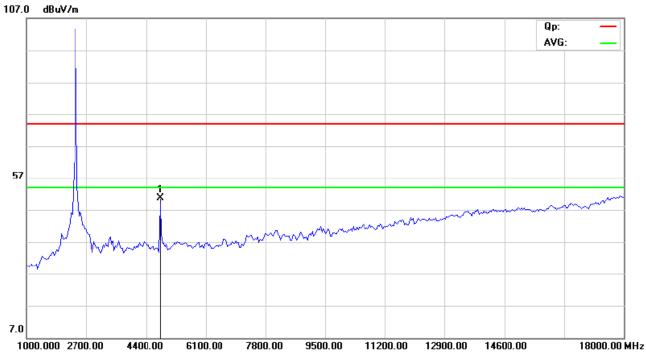
Report No.: FCC1706166-01

Date: 2017-07-10

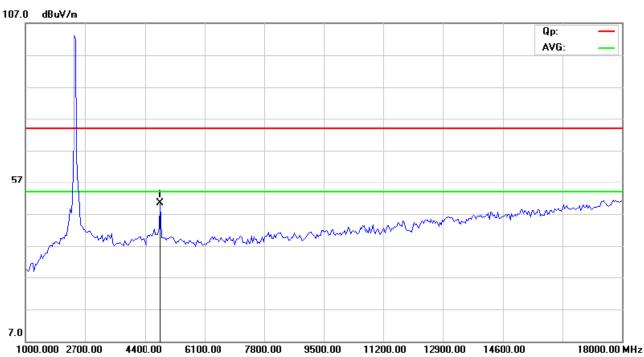


Please refer to the following test plots for details:

CH01 for 11n HT40 at mcs0: Horizontal



CH01 for 11n HT40 at mcs0: Vertical



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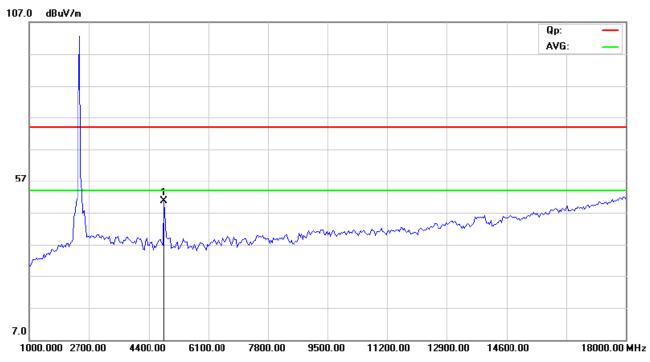
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CH04 for 11n HT40 at mcs0: Vertical



CH04 for 11n HT40 at mcs0: Horizontal



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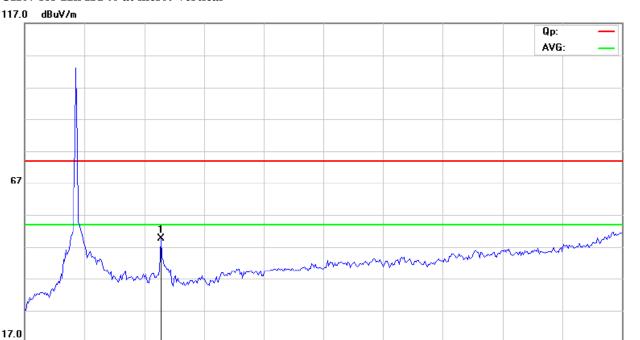
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CH07 for 11n HT40 at mcs0: Vertical



9500.00

11200.00

12900.00

14600.00

18000.00 MHz

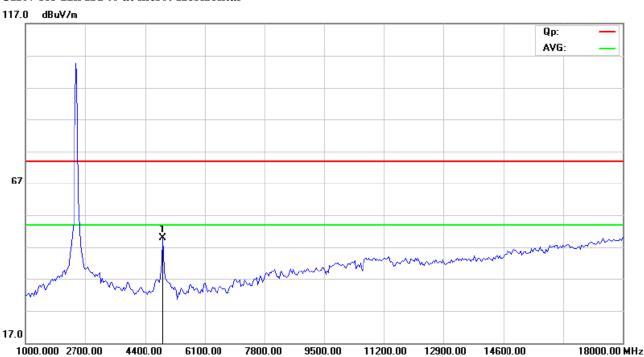
CH07 for 11n HT40 at mcs0: Horizontal

4400.00

6100.00

7800.00

1000.000 2700.00



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

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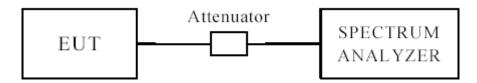
Report No.: FCC1706166-01

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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 $(VBW) \ge 3 \times RBW$.
- 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

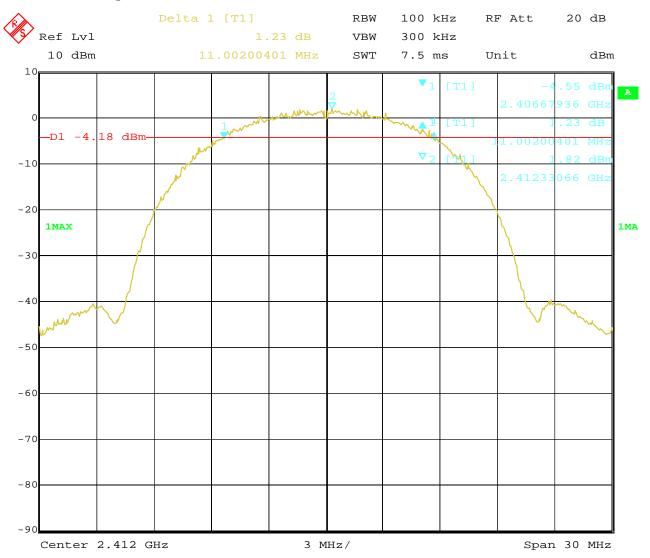
EUT		Adverti	sing Displa	yer	Model		JAR2	215-01
Mode		8	302.11b		Input Vol	tage	120	0V~
Temperat	ure	24	4 deg. C,		Humidity	,	56%	6 RH
Channel		Channel Frequency (MHz)		6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail
1		2412	11	11.00		0.5		Pass
6		2437	11	11.00			0.5	Pass
11		2462	11	11.00			0.5	Pass
1		2412	. 1		10.04		0.5	Pass
6		2437 1		10	.04		0.5	Pass
11	2462		1	10	.04		0.5	Pass

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1. 802.11b at 11Mbps of CH01



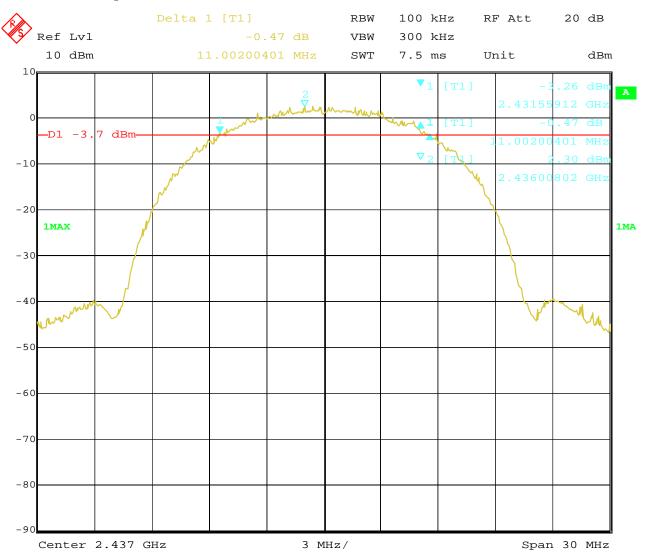
19.MAY.2017 11:04:50 Date:

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2. 802.11b at 11Mbps of CH06



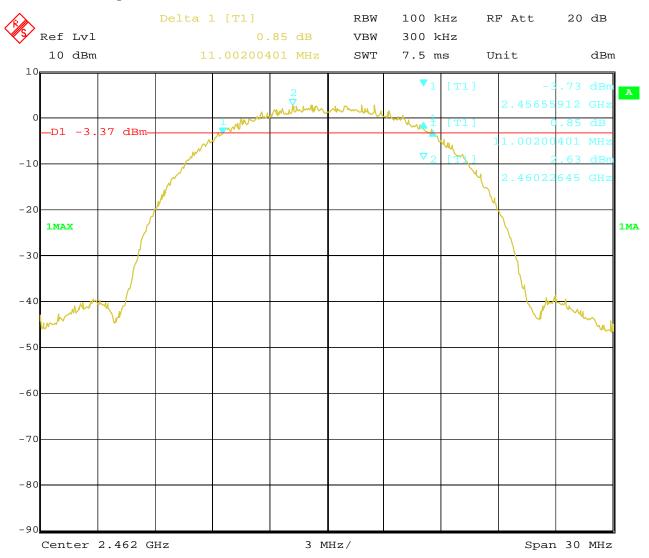
19.MAY.2017 11:08:05 Date:

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3. 802.11b at 11Mbps of CH11

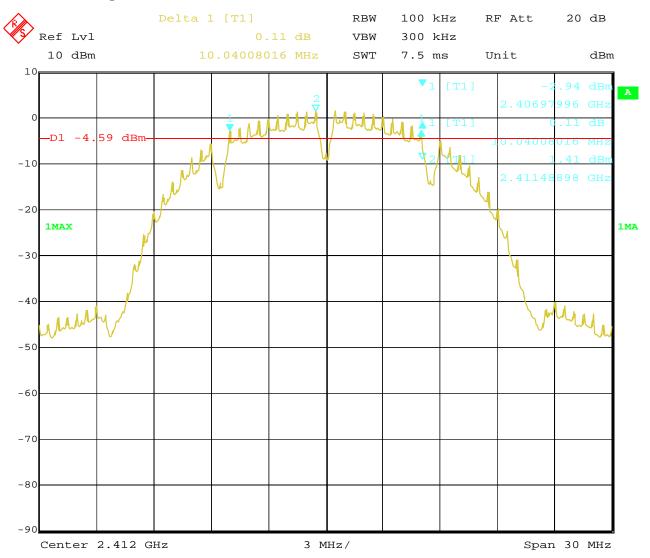


Date: 19.MAY.2017 11:28:52 Report No.: FCC1706166-01 Page 43 of 106

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4. 802.11b at 1Mbps of CH01

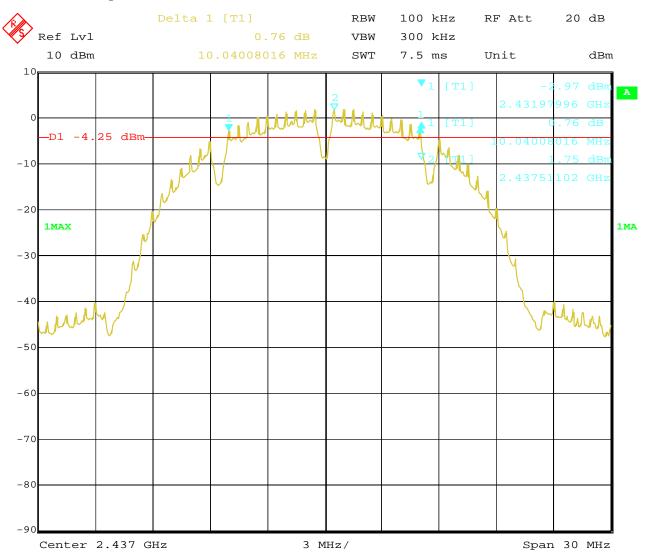


19.MAY.2017 Date: 10:51:24 Report No.: FCC1706166-01 Page 44 of 106

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5. 802.11b at 1Mbps of CH06

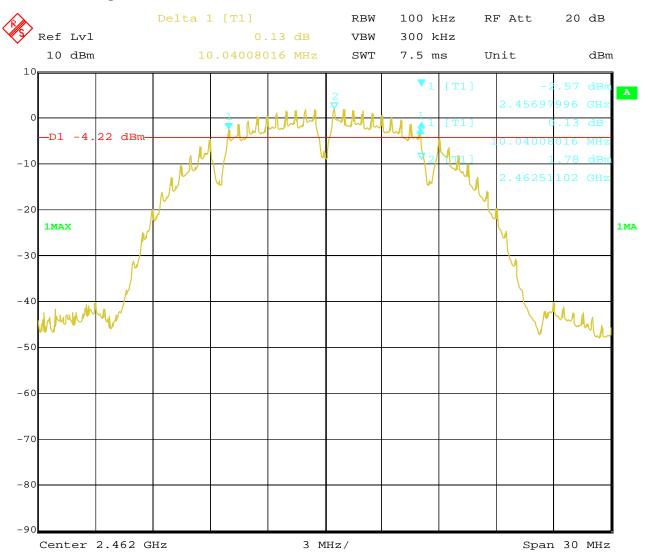


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6. 802.11b at 1Mbps of CH11



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6dB Occupied Bandwidth

EUT		Adverti	sing Displa	yer	Model		JA	R215-01
Mode		8	302.11g		Input Vol	tage		120V~
Temperat	ure	24	4 deg. C,		Humidity	,	5	6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)		Minimum Limit (MHz) Pass/ Fail	
1		2412	6	16	5.41		0.5	Pass
6		2437	6	16	5.41	0.5		Pass
11		2462	6	16	5.41		0.5	Pass

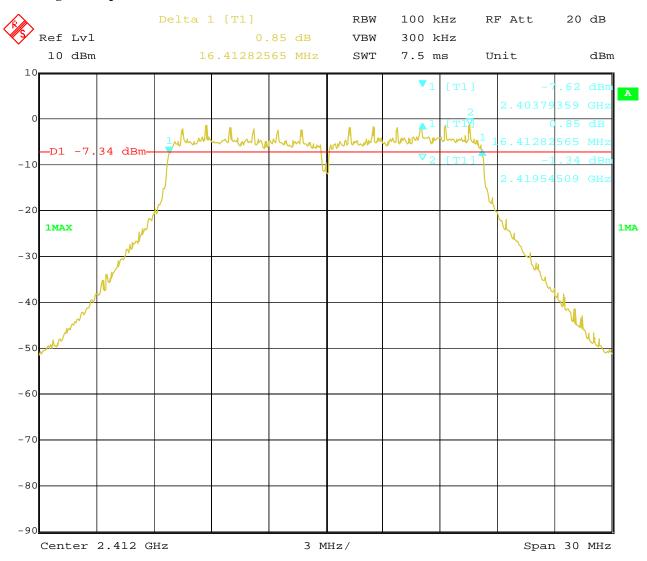
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Test Plots:

1. 802.11g at 6Mbps of CH01

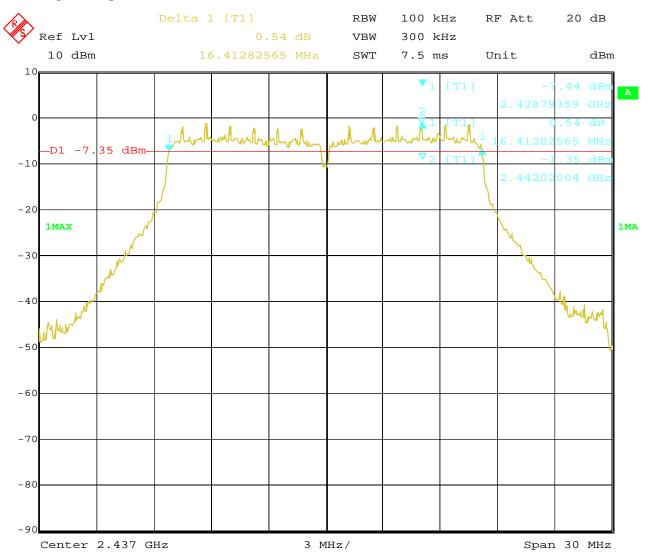


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2. 802.11g at 6Mbps of CH06

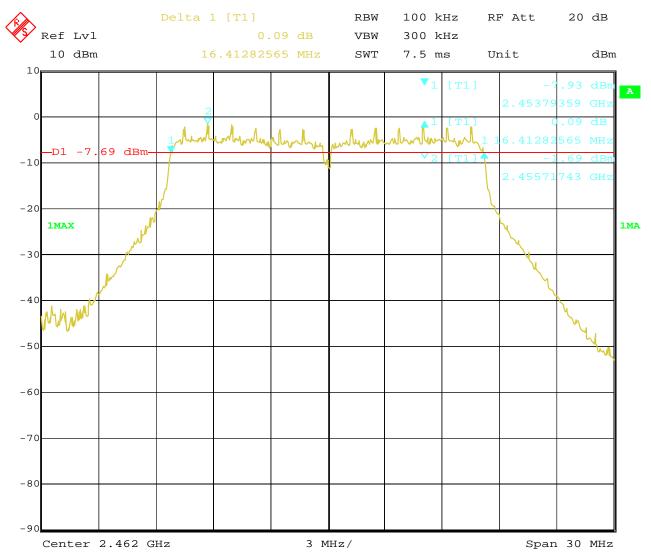


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3. 802.11g at 6Mbps of CH11



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6dB Occupied Bandwidth

EUT		Adverti	sing Displa	yer	Model		JAR	215-01
Mode		802	.11n HT20		Input Vol	tage	12	0V~
Temperat	ure	24	4 deg. C,		Humidity		56%	6 RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	mcs0	17	.56		0.5	Pass
6		2437	mcs0	17	.56		0.5	Pass
11		2462	mcs0	17	.56		0.5	Pass

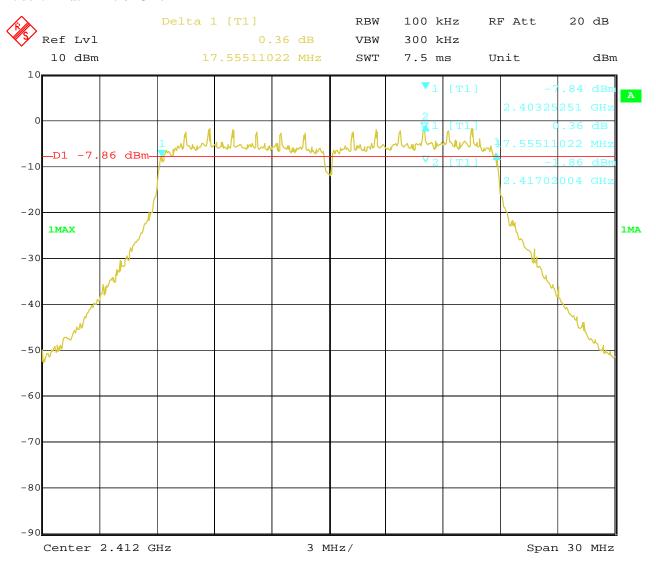
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Test Plots:

1. 802.11n at HT20 of CH01

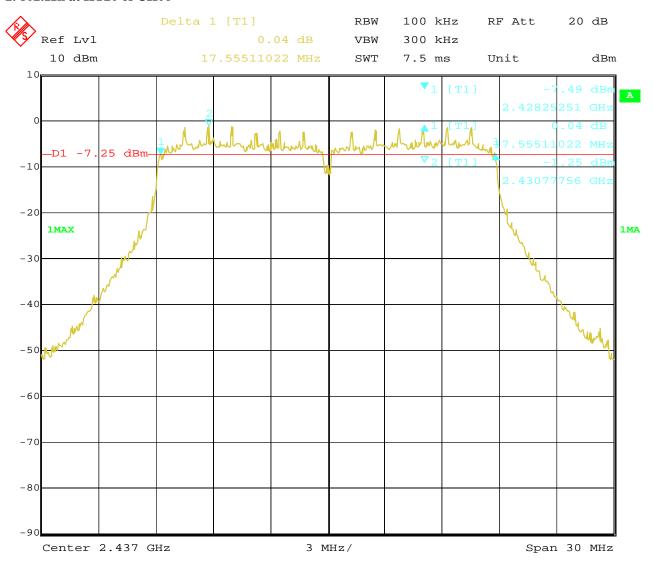


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2. 802.11n at HT20 of CH06



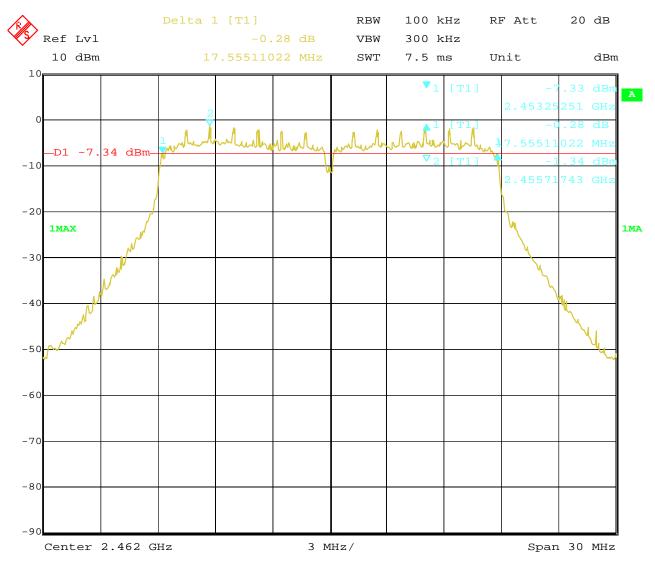
19.MAY.2017 11:33:18 Date:

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3. 802.11n at HT20 of CH11



19.MAY.2017 11:31:29 Date:

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6dB Occupied Bandwidth

EUT		Adverti	sing Displa	yer	Model		JAR	215-01
Mode		802	.11n HT40		Input Vol	tage	12	0V~
Temperat	ure	24	4 deg. C,		Humidity		56%	6 RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		ndwidth Hz)		num Limit MHz)	Pass/ Fail
1		2422	mcs0	35	.55		0.5	Pass
4		2437	mcs0	35	.55	0.5		Pass
7		2452	mcs0	35	.55		0.5	Pass

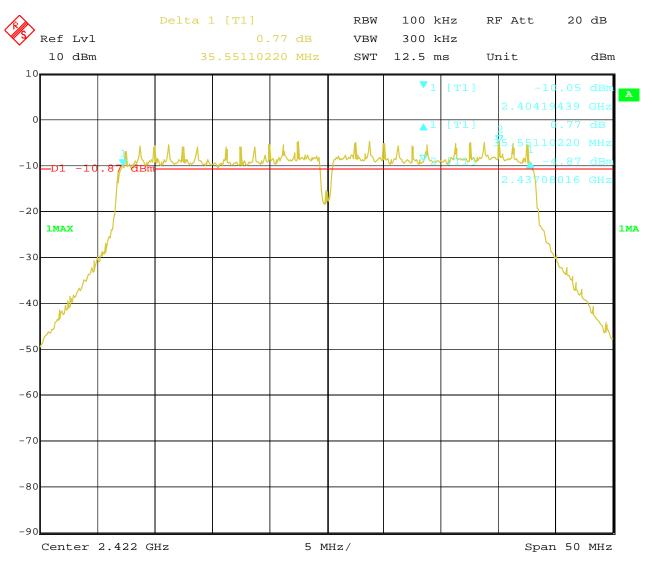
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Test Plots:

1. 802.11n at HT40 of CH01

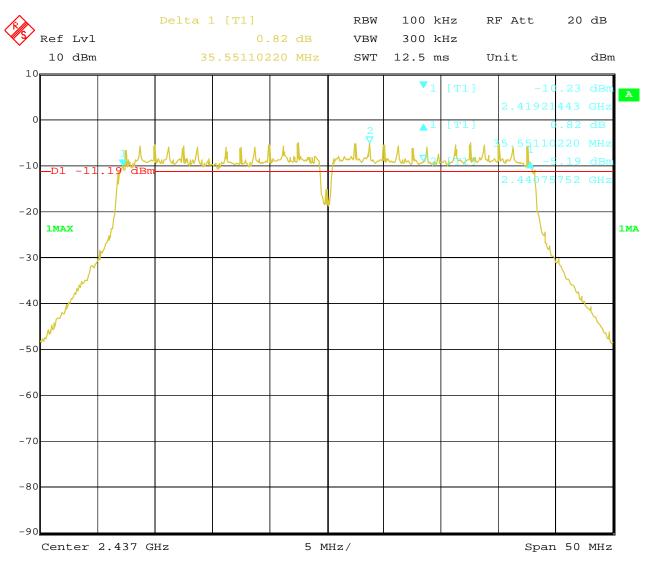


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2. 802.11n at HT40 of CH04



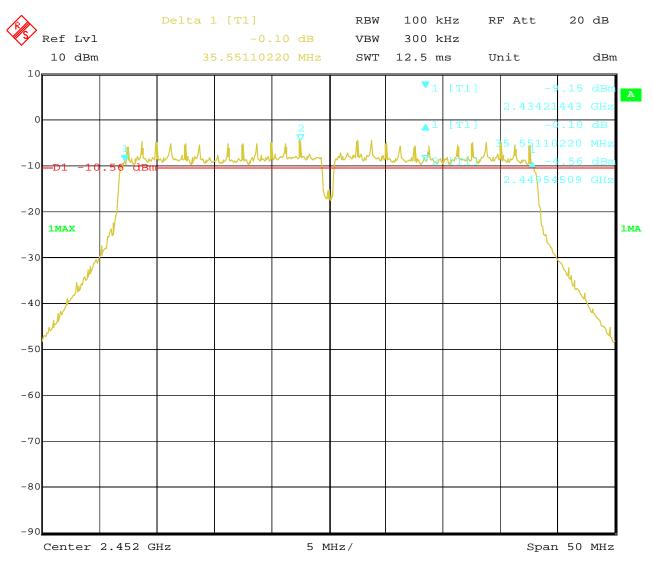
19.MAY.2017 11:41:09 Date:

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3. 802.11n at HT40 of CH07



19.MAY.2017 11:46:05 Date:

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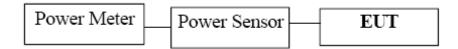
Date: 2017-07-10



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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum 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.

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8.4Test Results

EUT		Advertising	Displayer	M	odel		JAR215-01
Mode	Mode 802.		1b	Input Voltage			120V~
Temperature		24 deg	24 deg. C,		Humidity		56% RH
Channel	Channel Frequency (MHz)		Max. Power Output (dBm)		Power (dB		Pass/ Fail
		(WITE)	AV		(uD	111)	
1	2412		16.75		30		Pass
6	6 2437		17.68		30		Pass
11		2462	17.64		30)	Pass

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

2. The result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		Advertising	Displayer	M	odel		JAR215-01
Mode	Mode 802.		1g	Input Voltage			120V~
Temperat	Temperature		g. C,	Humidity		56% RH	
Channel	el Channel Frequency		Max. Power Output (dBm)		Power (dB		Pass/ Fail
		(MHz)	AV		(dD)	111)	
1	2412		17.27		30)	Pass
6	6 2437		17.48		30)	Pass
11	11 2462		17.42		30)	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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EUT		Advertising	Displayer	M	odel		JAR215-01
Mode	Mode 802.11n		(HT20)	Input Voltage			120V~
Temperat	Temperature		g. C,	Humidity			56% RH
Channel	Channel Frequency		Max. Power Output (dBm)		Power (dB		Pass/ Fail
		(MHz)	AV		(ub	111)	
1	2412		17.72		30		Pass
6	6 2437		17.77		30		Pass
11	11 2462		17.49		30)	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		Advertising	Displayer	M	odel		JAR215-01
Mode		802.11n (HT40)		Input Voltage			120V~
Temperature		24 deg. C,		Humidity			56% RH
Channel	Cha	annel Frequency (MHz)	Max. Power Output (dBm)		Power Limit (dBm)		Pass/ Fail
		(WILLE)	AV		(ub	111)	
1	2422		17.33		30		Pass
4	4 2437		17.14		30)	Pass
7	7 2452		17.14	•	30)	Pass

Note: 1. At finial test to get the worst-case emission at mcs0 of 11n HT40 for CH01, CH04 and CH07

2. The result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

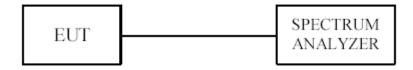
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9. Power Spectral Density Measurement

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 ≤ 8 dBm.

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9.4Test Result

EUT		Advertising	Displayer	M	odel		JAR215-01
Mode		802.11b 1Mbps		Input Voltage			120V~
Temperature		24 deg	g. C,	Humidity			56% RH
Channel	Cha	annel Frequency	Final RF Po	wer	Maximu	n Limit	Pass/ Fail
Chamier		(MHz)	Level in (dl	Bm)	(dB	m)	
			11Mbps				
1		2412	-7.66		8		Pass
6		2437	-6.74		8		Pass
11		2462	-6.18		8		Pass
			1Mbps				
1		2412	-6.28		8		Pass
6	2437		-6.03		8		Pass
11		2462	-6.14		8		Pass

EUT		Advertising	Displayer	M	odel		JAR215-01
Mode		802.11g	802.11g 6Mbps Input Voltage		Voltage		120V~
Temperat	Temperature 24 d		g. C, Hum		midity		56% RH
Channel	Cha	annel Frequency	Final RF Power		Maximum Limit		Pass/ Fail
Chamiei		(MHz)	Level in (dBm)		(dB	m)	
			6Mbps				
1		2412	-10.06		8		Pass
6	2437		-9.15		8		Pass
11		2462	-9.14		8		Pass

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EUT		Advertising	Displayer	M	odel		JAR215-01	
Mode		802.11n H7	720 mcs0	Input	Voltage		120V~	
Temperati	ure	24 deg	24 deg. C, Humidity			56% RH		
Channel	Cha	annel Frequency	Final RF Power		Maximum Limit		Pass/ Fail	
Chamiei		(MHz)	Level (dB	m)	(dB	m)		
			HT20					
1		2412	-10.21		8		Pass	
6	6 2437		-10.58		8		Pass	
11	11 2462		-10.36		8		Pass	

EUT		Advertising	Displayer Mo		odel		JAR215-01	
Mode		802.11n H7	Γ40 mcs0	Input	Voltage		120V~	
Temperati	ure	24 deg	g. C,	Hur	nidity		56% RH	
Channel	Channel Frequency		Final RF Power		Maximum Limit		Pass/ Fail	
Chamiei		(MHz)	Level (dBm)		(dB	m)		
			HT40					
1		2422	-13.25		8		Pass	
4	2437		-13.92		8		Pass	
7	7 2452		-14.47		8		Pass	

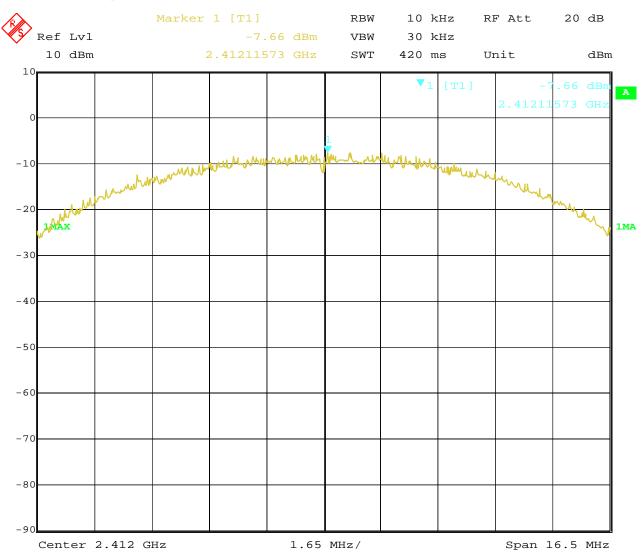
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9.5 Photo of Power Spectral Density Measurement

1. 802.11b at 11Mbps of CH1

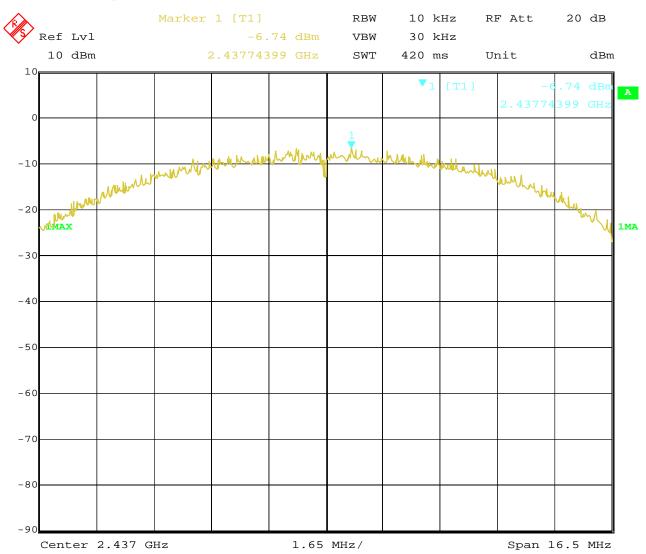


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2. 802.11b at 11Mbps of CH6



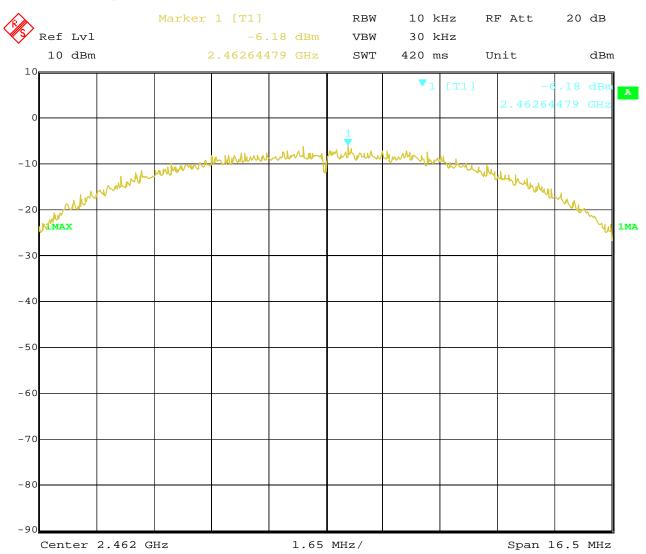
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3. 802.11b at 11Mbps of CH11



19.MAY.2017 16:26:17 Date:

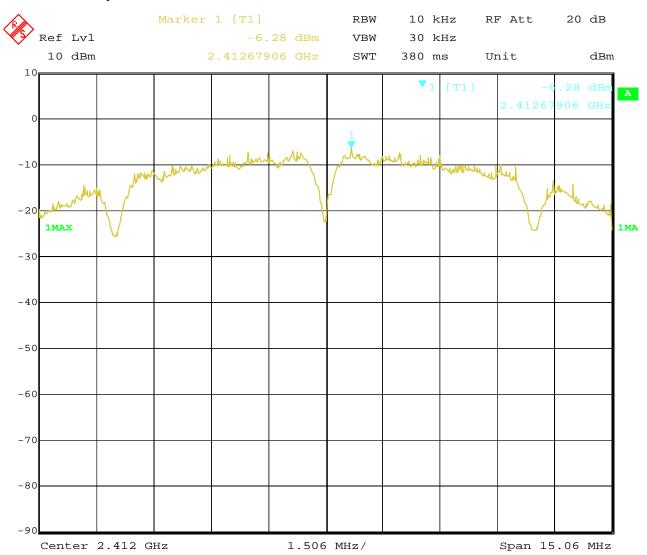
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4. 802.11b at 1Mbps of CH1



19.MAY.2017 16:15:08 Date:

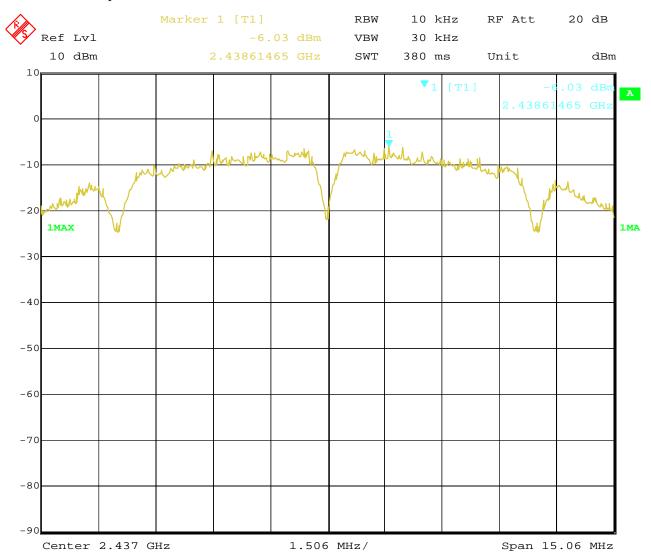
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5. 802.11b at 1Mbps of CH6



19.MAY.2017 16:13:02 Date:

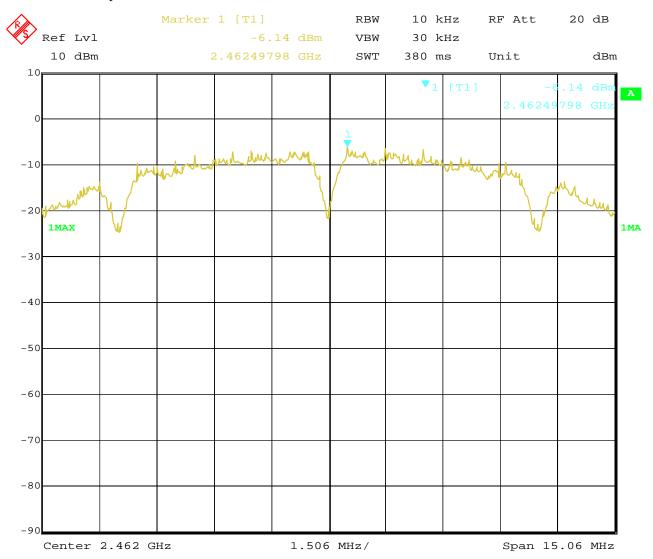
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6. 802.11b at 1Mbps of CH11



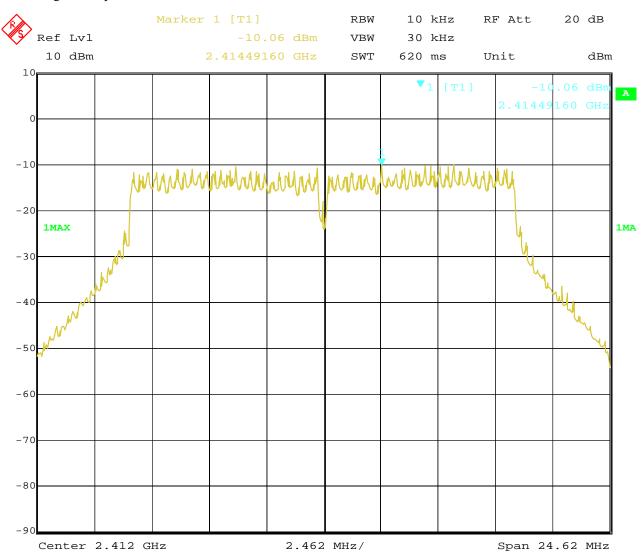
19.MAY.2017 16:10:53 Date:

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7. 802.11g at 6Mbps of CH1

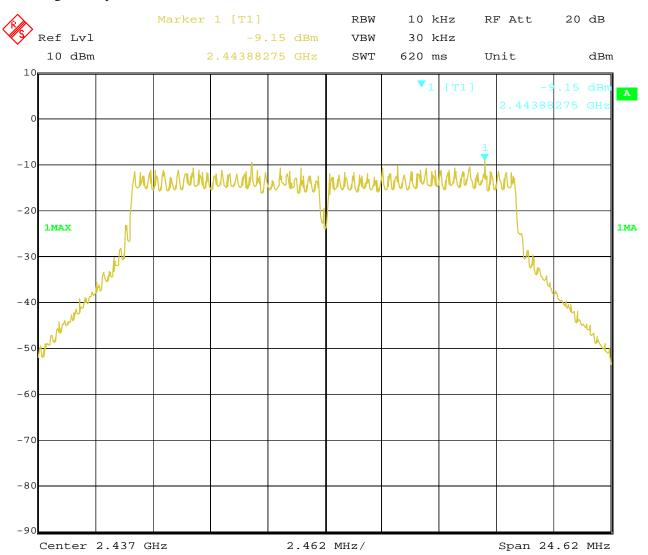


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8. 802.11g at 6Mbps of CH6



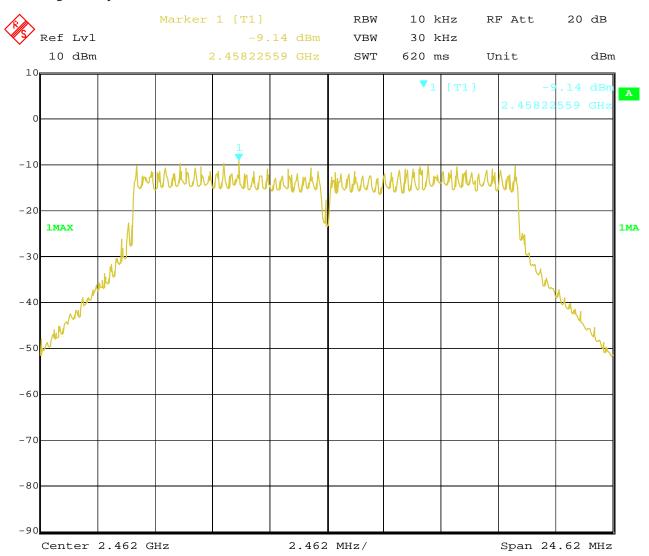
16:20:54 Date: 19.MAY.2017

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9. 802.11g at 6Mbps of CH11



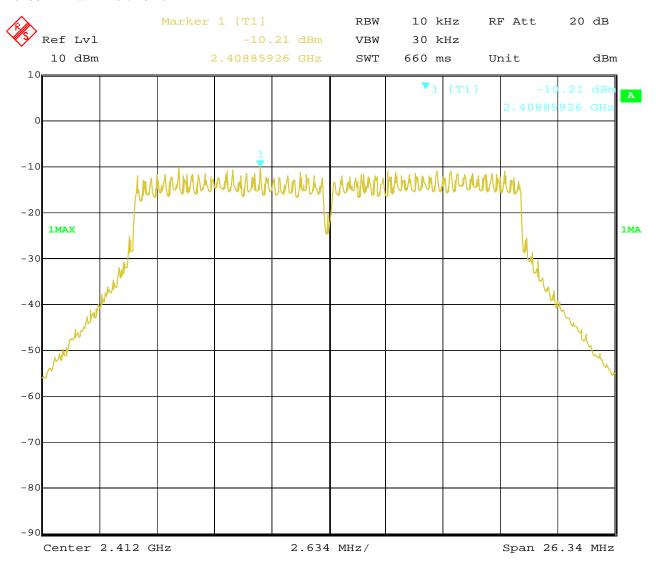
19.MAY.2017 16:23:42 Date:

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10. 802.11n at HT20 of CH01



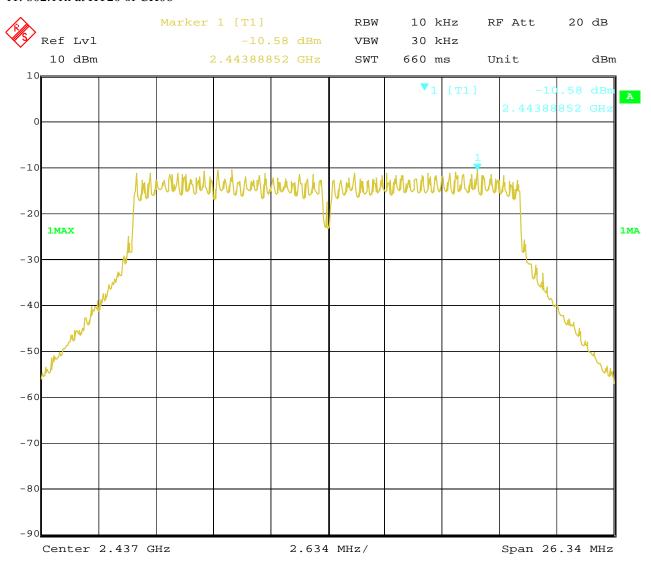
19.MAY.2017 16:05:44 Date:

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11. 802.11n at HT20 of CH06



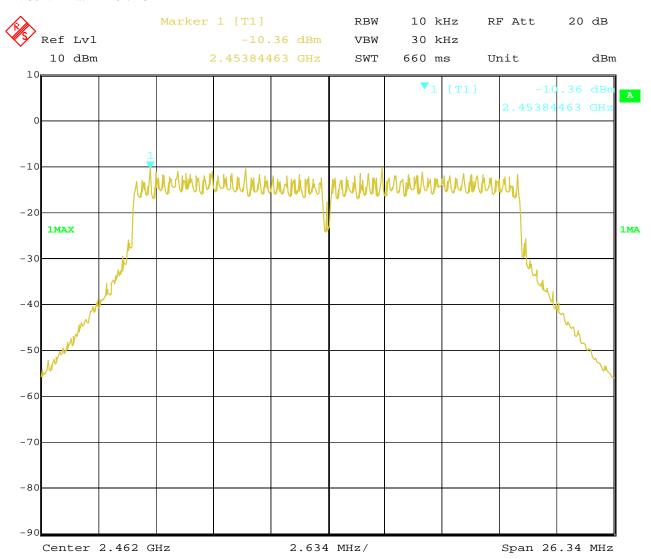
19.MAY.2017 16:07:51 Date:

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12. 802.11n at HT20 of CH11



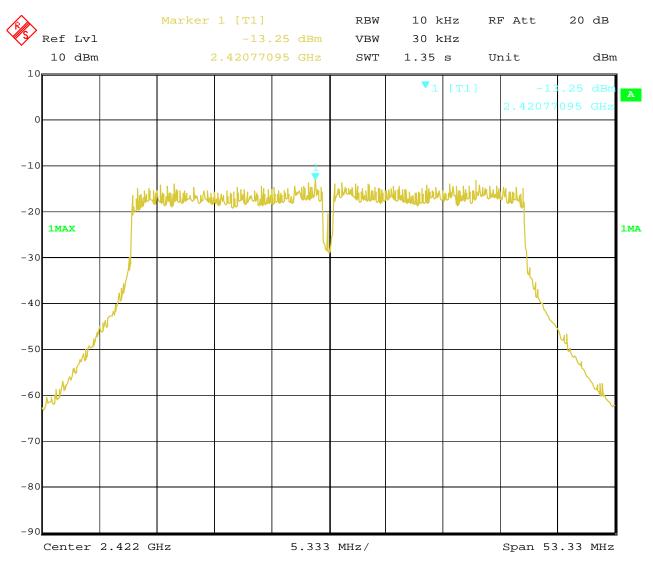
19.MAY.2017 16:09:49 Date:

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13. 802.11n at HT40 of CH01

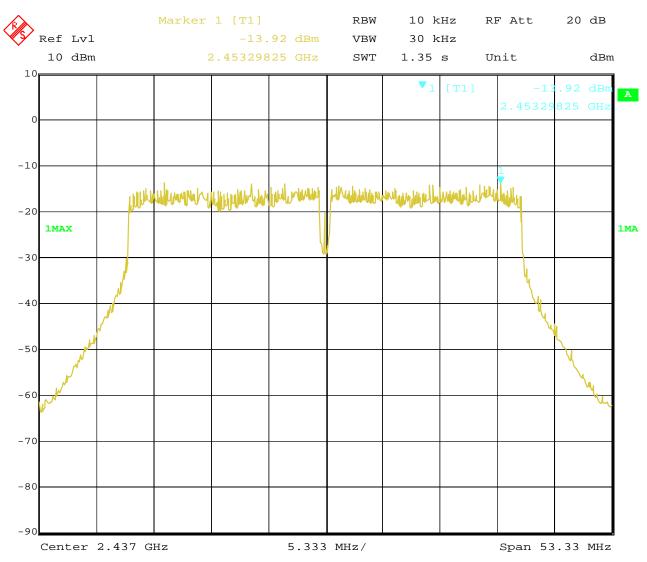


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14. 802.11n at HT40 of CH04

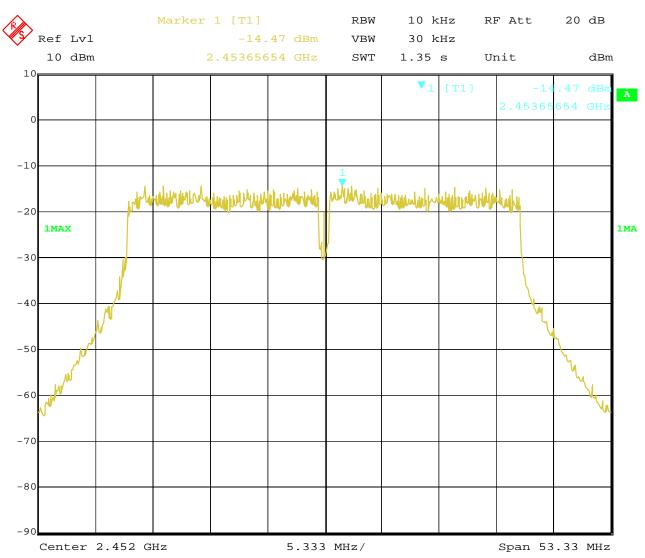


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15. 802.11n at HT40 of CH07

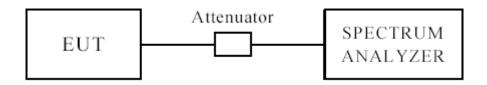


19.MAY.2017 15:19:50 Date:

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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 –30dB 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=100kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. this is a handhold 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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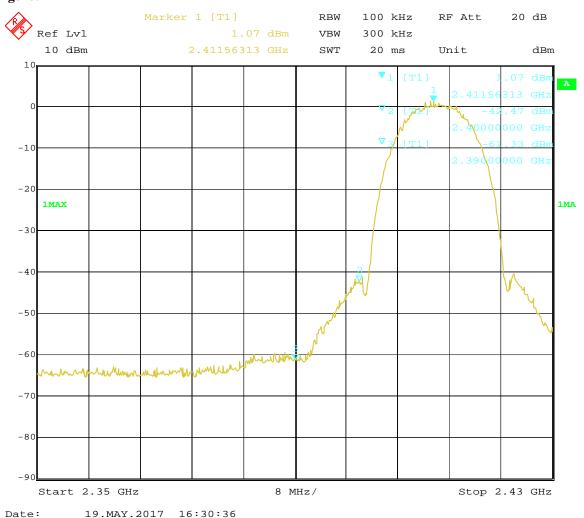
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	60.1	Limit	$74(dB\mu V/m)$
	AV $(dB\mu V/m)$	38.8	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	44.5	Limit	74(dBμV/m)
	AV ($dB\mu V/m$)		Liffill	54(dBµV/m)

Test Figure:



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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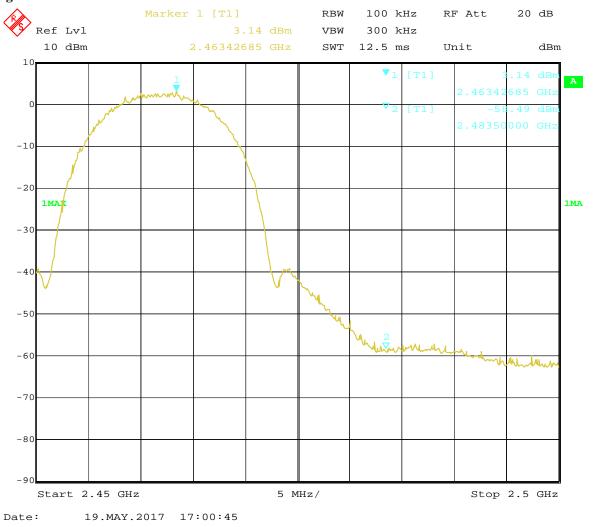


CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	46.9	T ::14	$74(dB\mu V/m)$
	AV ($dB\mu V/m$)		Limit	54(dBµV/m)

Test Figure:



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

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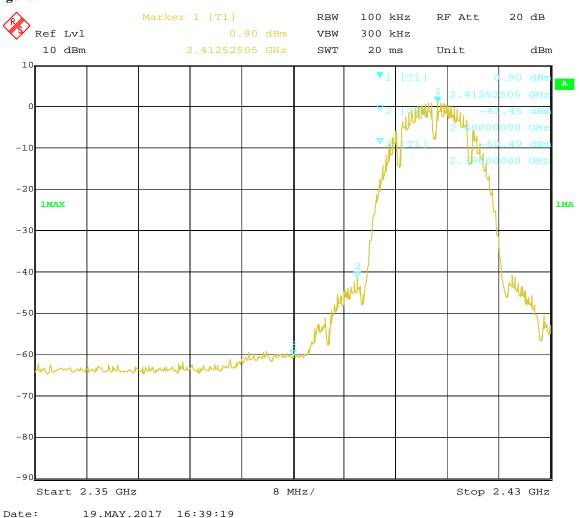
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass		PK
2400	PK (dBμV/m)	61.3	T imais	$74(dB\mu V/m)$
	AV $(dB\mu V/m)$	40.4	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	45.6	Limit	$74(dB\mu V/m)$
	AV $(dB\mu V/m)$		Limit	$54(dB\mu V/m)$

Test Figure:



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

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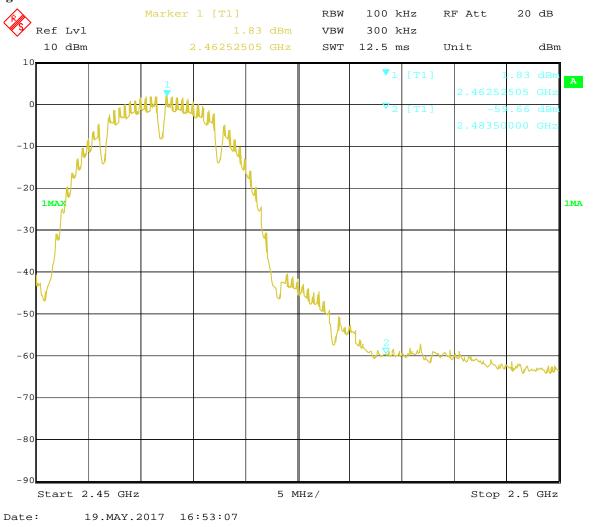


CH11 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	45.9	T,	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	54(dBµV/m)

Test Figure:



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

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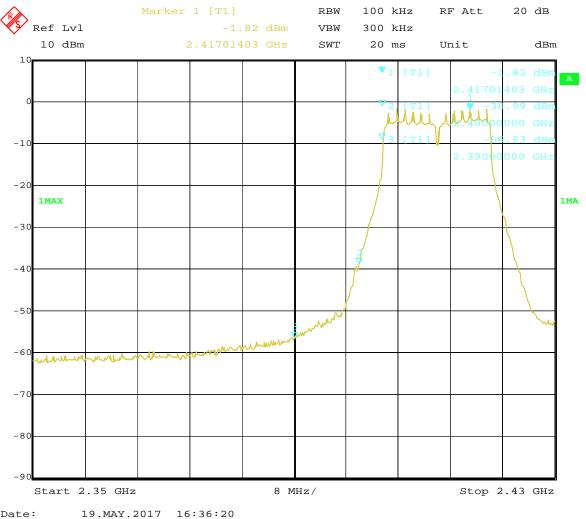
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	63.3	T imit	$74(dB\mu V/m)$
	AV (dBμV/m)	43.2	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	46.4	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

Test Figure:



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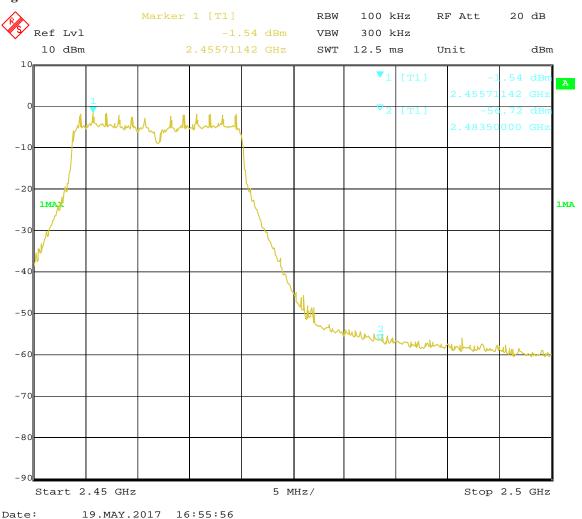


CH11 at 6Mbps

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Mod	lel	JAR215-01
Mode	Keeping Transmitting		Input V	oltage	120V~
Temperature	24 deg. C,		Humi	dity	56% RH
Test Result:	Pass		Detec	ctor	PK
2483.5	PK (dBµV/m)	48.7	T ::4	$74(dB\mu V/m)$ $54(dB\mu V/m)$	
	AV ($dB\mu V/m$)		Limit		

Test Figure:



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

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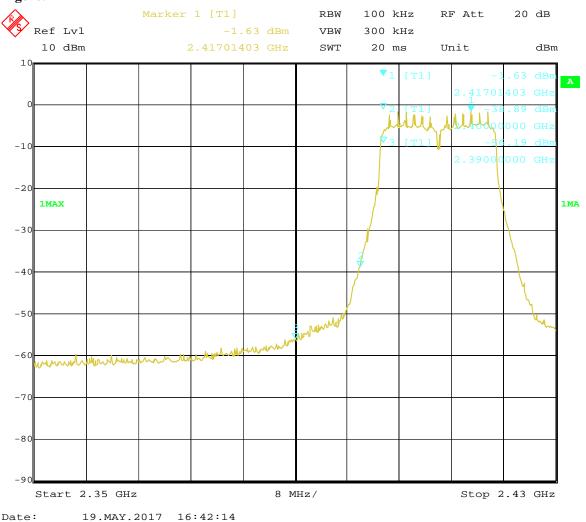
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	65.6	T imaid	$74(dB\mu V/m)$
	AV (dBμV/m)	44.9	Limit	$54(dB\mu V/m)$
2390	PK (dBμV/m)	47.3	Limit	$74(dB\mu V/m)$
	AV ($dB\mu V/m$)		Liffill	54(dBμV/m)

Test Figure:



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

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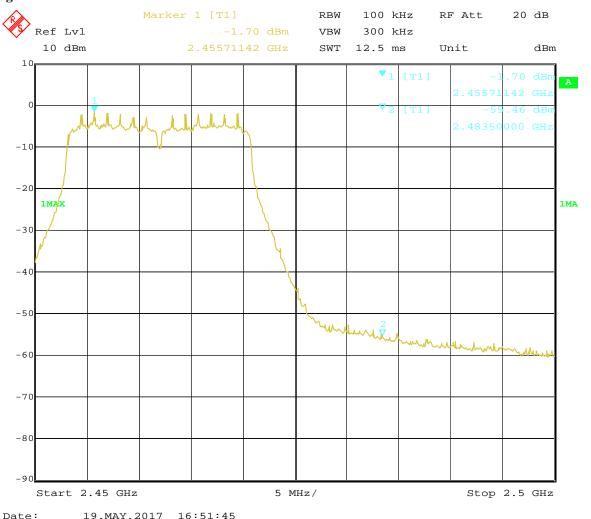


CH11 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	48.6	T :!4	$74(dB\mu V/m)$
	AV ($dB\mu V/m$)		Limit	$54(dB\mu V/m)$

Test Figure:



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

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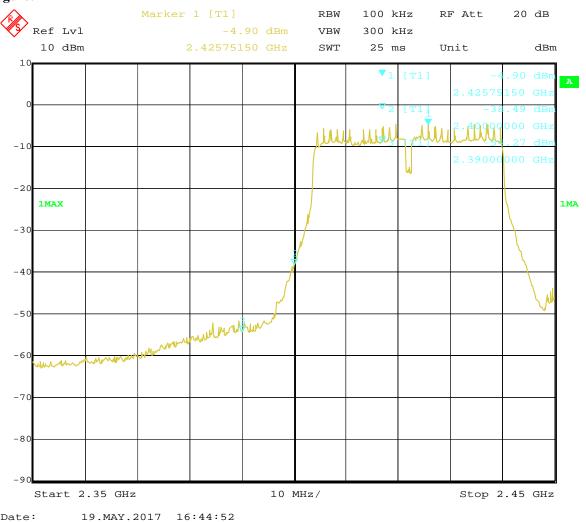
For 802.11n (HT40) mode

CH01 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	68.4	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	48.0	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	50.5	Limit	$74(dB\mu V/m)$
	AV $(dB\mu V/m)$		LIIIII	$54(dB\mu V/m)$

Test Figure:



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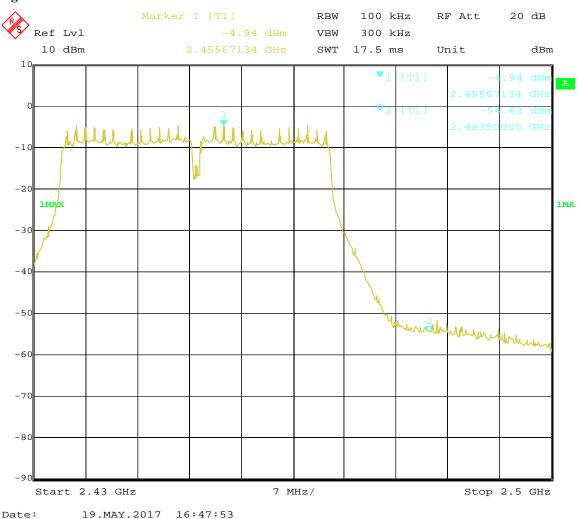


CH7 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Advertising Displayer		Model	JAR215-01
Mode	Keeping Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	53.2	T * *,	$74(dB\mu V/m)$
	AV (dBμV/m)	33.6	Limit	$54(dB\mu V/m)$

Test Figure:



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 mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 2.0dBi.

Date: 2017-07-10



12.0 FCC ID Label

FCC ID: 2AACS-JAR215-01

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:



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13.0 Photo of testing

Conducted Emission Test Setup:



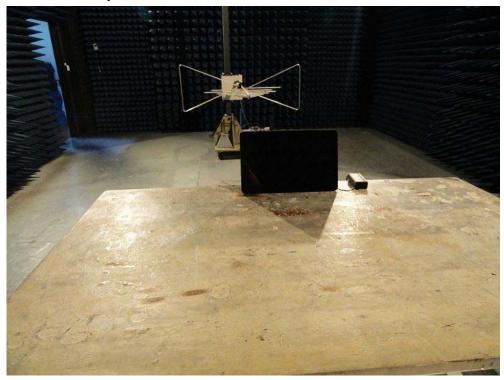
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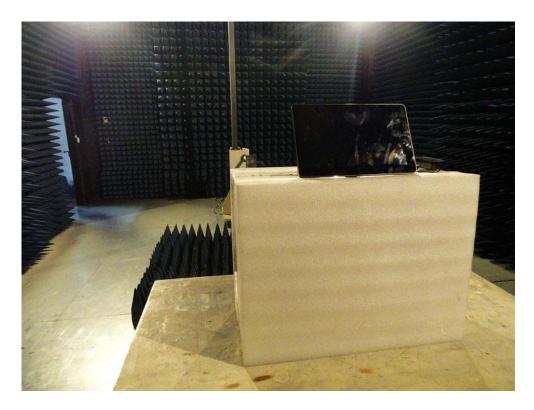
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Radiated Emission Test Setup:





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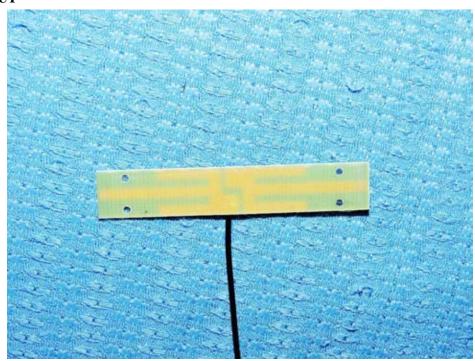
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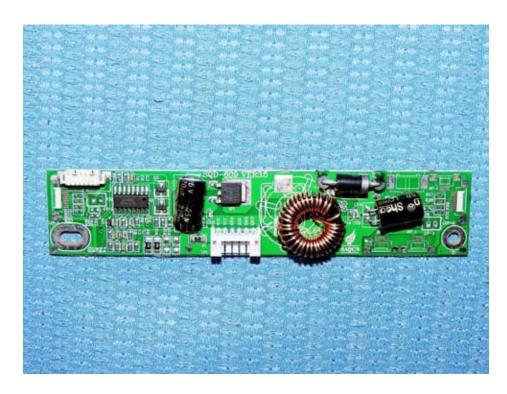
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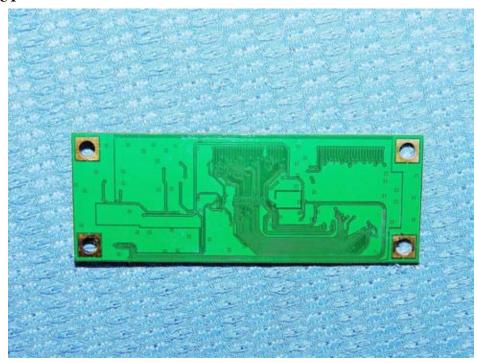
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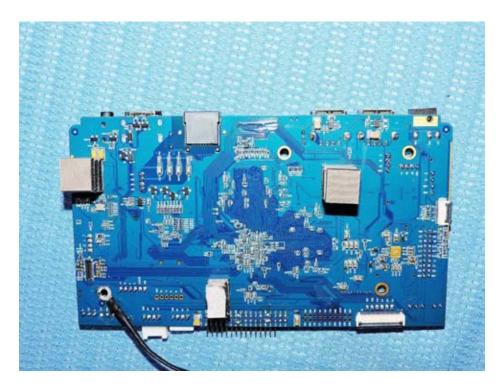
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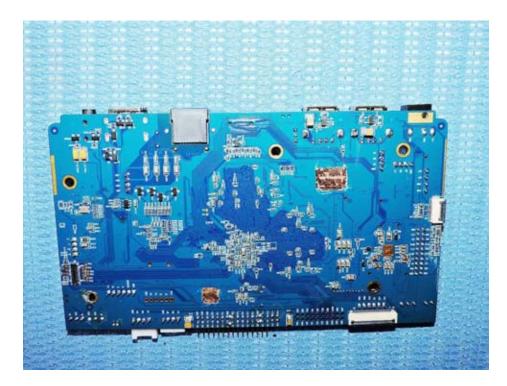
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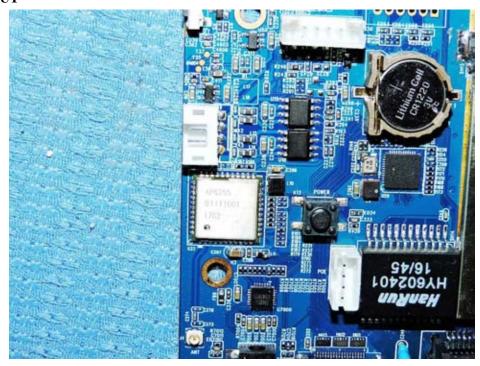
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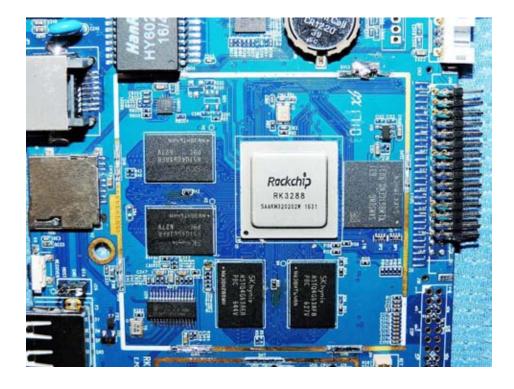
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