



Report No: FCC 1603086-01 File reference No: 2016-03-30

Applicant: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD

Product: smart phone

Model No: D351W

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 Subpart C, Paragraph 15.247 regulations for the evaluation of

raragraph 13.247 regulations for the evaluation (

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: March 30, 2016

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

Date: 2016-03-30



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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 17025:2005 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.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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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: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD

Address: No.188, West Coastal Road, Haian County, Jiangsu Province, P.R. China

Telephone: 0513-88355088 Fax: 0513-88355618

1.3 Description of EUT

Product: smart phone

Manufacturer: JIANGSU SHUANGSHUANG TECHNOLOGY CO,LTD

Address: No.188, West Coastal Road, Haian County, Jiangsu Province, P.R. China

Brand Name: N/A
Model Number: D351W

Additional Model Number: N/A

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

IEEE 802.11g/n (HT20/40): OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE802.11b/g/n (HT20/40): 2412-2462MHz,IEEE802.11n (HT40) : 2422-2452MHz

Channel Spacing 5MHz for IEEE 802.11b/g/n(HT20/40) 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 HT20/40: 150, 135, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6.5

Mbps

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 3.0dBi;

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Power Adapter Model No.: SC050080-US

Input: 100-240V, 50/60Hz, 0.15A; Output: DC5V, 600mA

Submitted Sample: 2 Samples 1.4

1.5 Test Duration

20156-03-17 to 2016-03-23

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 Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2015-08-22	2016-08-21
Ultra Broadband ANT	R&S	HL562	100157	2015-08-23	2016-08-22
ESDV Test Receiver	R&S	ESDV	100008	2015-08-22	2016-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2015-08-22	2016-08-21
System Controller	CT	SC100	-		
Printer	EPSON	РНОТО ЕХЗ	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2015-08-23	2016-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2015-08-22	2016-08-21
3m OATS			N/A	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2015-08-24	2016-08-23
Power meter	Anritsu	ML2487A	6K00003613	2015-08-22	2016-08-21
Power sensor	Anritsu	MA2491A	32263	2015-08-22	2016-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2015-08-23	2016-08-21
LISN	AFJ	LS16C	10010947251	2015-08-22	2016-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2015-08-23	2016-08-22
9*6*6 Anechoic			N/A	2015-08-24	2016-08-23
EMI Test Receiver	RS	ESCS30	100139	2015-08-22	2016-08-21

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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: 6.5Mbps data rate (worst case) were chosen for full testing

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: 6.5Mbps data rate (worst case) were 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.

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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 & 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 and ANSI C63.4:2014 AND ANSI C63.10:2013

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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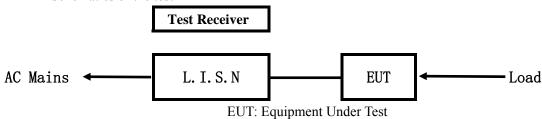
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5.0 Power Line Conducted Emission Test

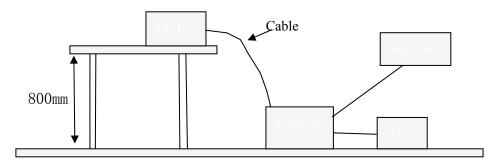
5.1 Schematics of the test



5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014.

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



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID	
	JIANGSU SHUANGSHUANG	D251W	24 DDT D251W	
smart phone	TECHNOLOGY CO,LTD	D351W	2ABDT-D351W	

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 C63.4-2014.

- 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 µ 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		Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.5410	25.50	11.41	36.91	56.00	-19.09	QP	
2	0.5410	13.00	11.41	24.41	46.00	-21.59	AVG	

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

EUT Operating Environment

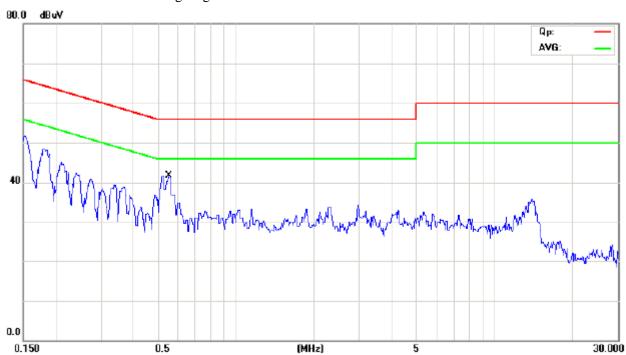
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep WIFI Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No. Mk.	Freq.			Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBu∀	dBuV	dB	Detector	Comment
1	0.5523	25.20	11.43	36.63	56.00	-19.37	QP	
2 *	0.5523	15.70	11.43	27.13	46.00	-18.87	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 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 C63.10–2013.
- (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. F 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 "**OP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup Distance = 3m Computer Pre –Amplifier Furn-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

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
- 4. 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.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

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

Keep Transmitting EUT set Condition:

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
243.280	32.14	Н	46.00
123.800	32.17	Н	43.50
240.040	37.35	V	46.00
155.320	31.08	V	43.50

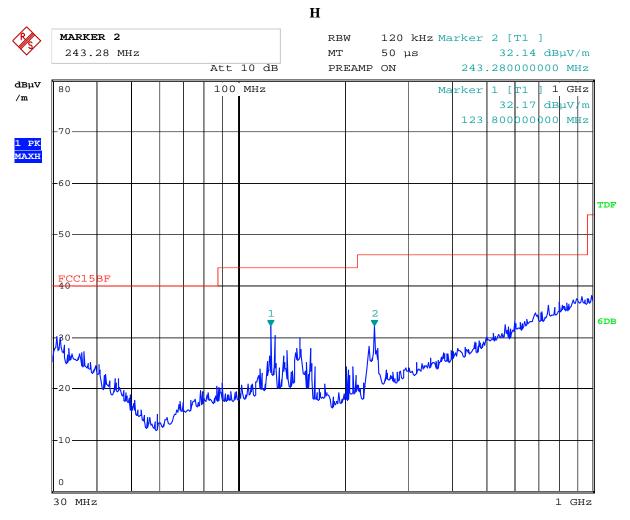
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Test Figure:



17.MAR.2016 14:18:07 Date:

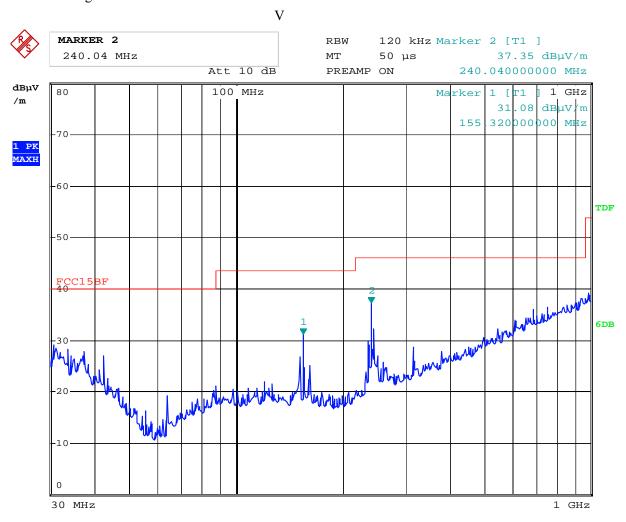
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Test Figure:



17.MAR.2016 14:16:42 Date:

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

	0	<i>0</i> 1	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4824.00	49.28 (PK)	Н	74(Peak)/ 54(AV)
4824.00	49.32 (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 under CH06 for 11g at 54Mbps

	0	о I	
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4874.00	52.20 (PK)	V	74(Peak)/ 54(AV)
4874.00	52.65 (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 54 Mbps

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

<u> </u>	· F			
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)	
4924	49.58 (PK)	Н	74(Peak)/ 54(AV)	
4924	49.64 (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

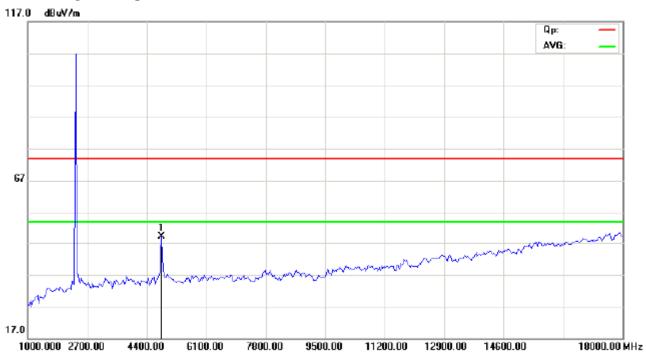
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 54 Mbps

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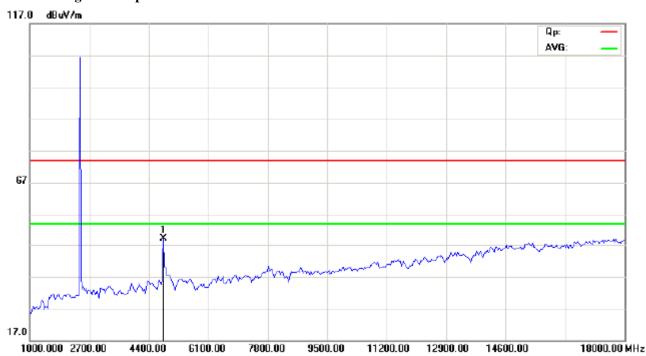


Please refer to the following test plots for details:

CH01 for 11g at 54Mbps: Horizontal



CH01 for 11g at 54Mbps: Vertical



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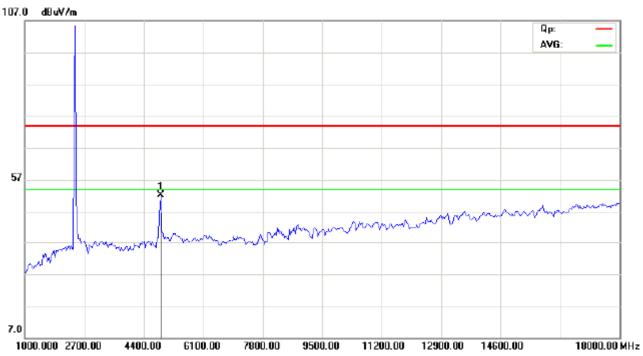
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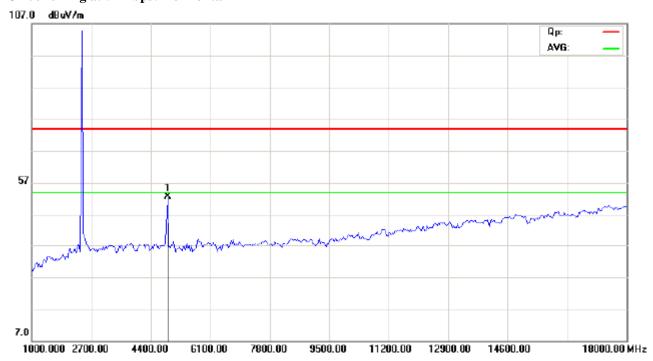
Date: 2016-03-30



CH06 for 11g at 54Mbps: Vertical



CH06 for 11g at 54Mbps: Horizontal



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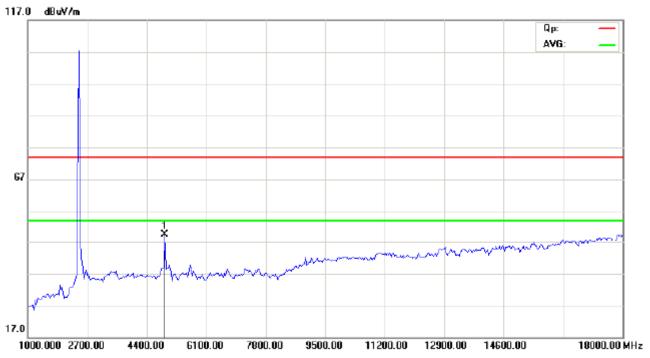
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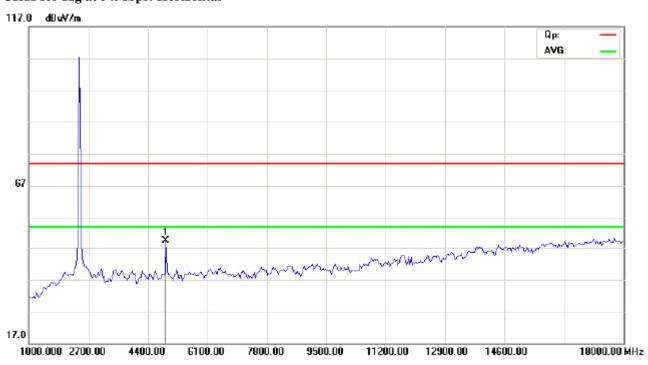
Date: 2016-03-30



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 under CH01 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	50.82 (PK)	Н	74(Peak)/ 54(AV)
4824.00	50.59 (PK)	V	74(Peak)/ 54(AV)
7236.00	-	H/V	74(Peak)/ 54(AV)
9648.00	1	H/V	74(Peak)/ 54(AV)
12060	1	H/V	74(Peak)/ 54(AV)
14472	1	H/V	74(Peak)/ 54(AV)
16684	1	H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708	1	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 under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4874.00	50.51 (PK)	Н	74(Peak)/ 54(AV)
4874.00	50.58 (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

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

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

	0		
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

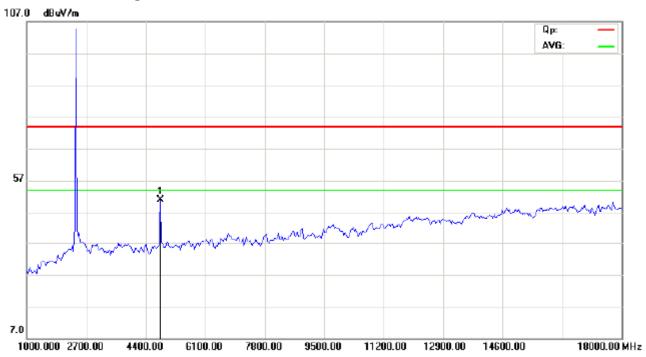
3. For 802.11b mode at 11Mbps

Date: 2016-03-30

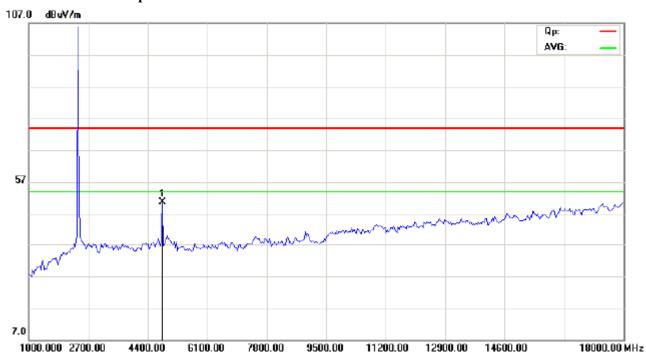


Please refer to the following test plots for details:

CH01 for 11b at 11Mbps: Horizontal



CH01 for 11b at 11Mbps: Vertical



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

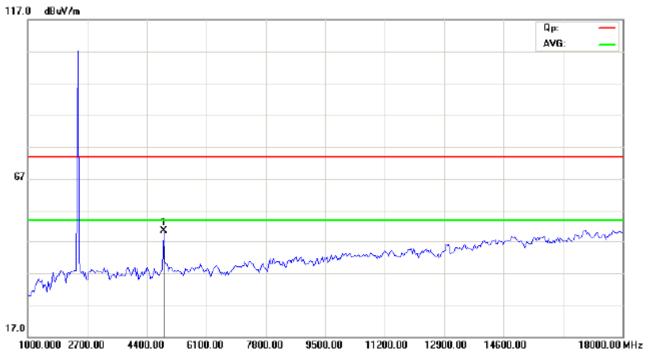
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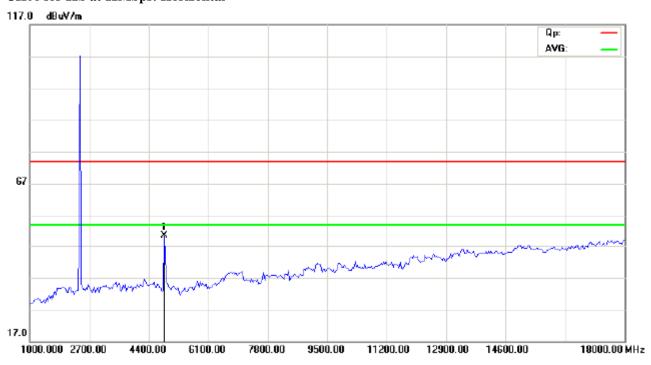
Date: 2016-03-30



CH06 for 11b at 11Mbps: Vertical



CH06 for 11b at 11Mbps: Horizontal



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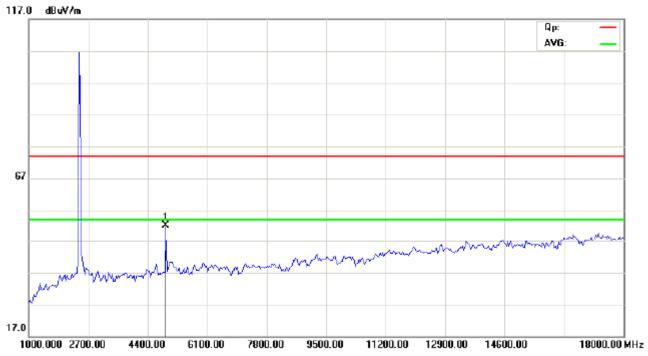
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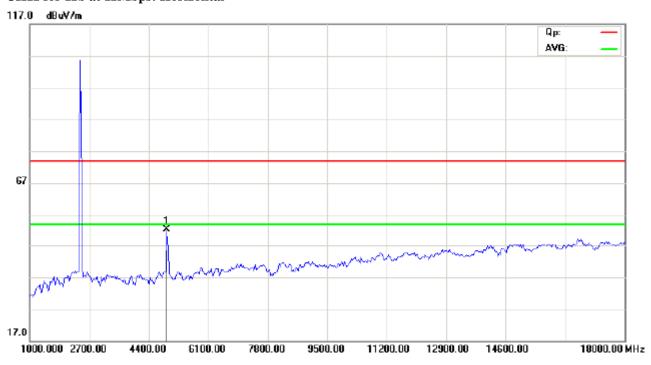
Date: 2016-03-30



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 under CH01 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4824.00	51.35 (PK)	Н	74(Peak)/ 54(AV)
4824.00	51.59 (PK)	V	74(Peak)/ 54(AV)
7236.00	1	H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472	1	H/V	74(Peak)/ 54(AV)
16684	1	H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708	1	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 6.5Mbps

Operation Mode: Transmitting under CH06 for 11n HT20 at 6.5Mbps

Frequency (MHz)	Level@3m (dB \u03b4 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		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 6.5Mbps

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

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Date: 2016-03-30



Operation Mode: Transmitting under CH11 for 11n HT20 at 6.5Mbps

	0		<u> </u>
Frequency (MHz)	Level@3m (dB \u03b4 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

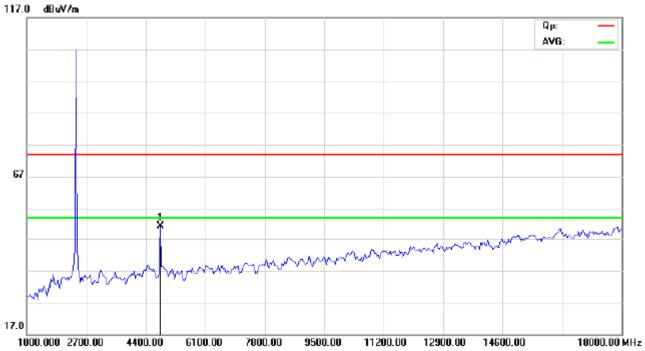
3. For 802.11n (HT20) mode 6.5Mbps

Date: 2016-03-30

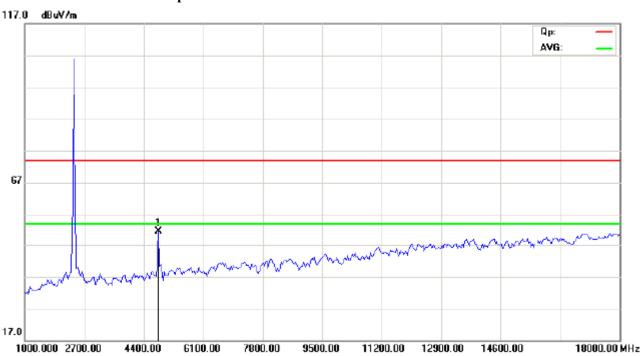


Please refer to the following test plots for details:

CH01 for 11n HT20 at 6.5Mbps: Horizontal



CH01 for 11n HT20 at 6.5Mbps: Vertical



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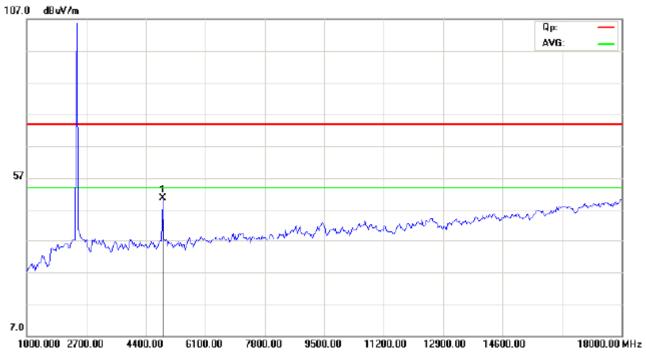
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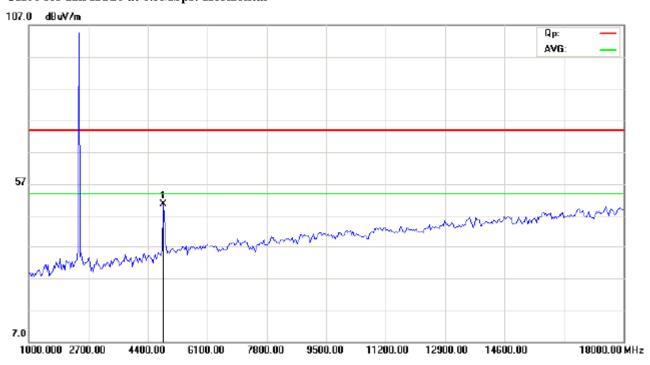
Date: 2016-03-30



CH06 for 11n HT20 at 6.5Mbps: Vertical



CH06 for 11n HT20 at 6.5Mbps: Horizontal



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

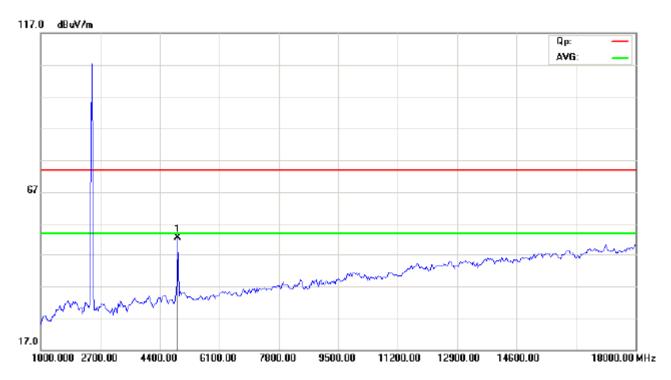
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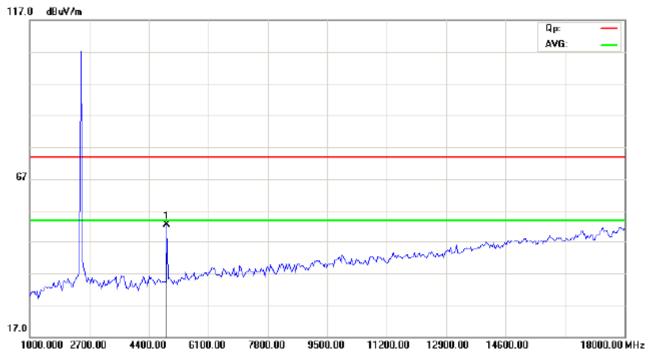
Date: 2016-03-30



CH11 for 11n HT20 at 6.5Mbps: Vertical



CH11 for 11n HT20 at 6.5Mbps: Horizontal



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Operation Mode: Transmitting under CH01 for 11n HT40 at 6.5Mbps

	0		1
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu 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 6.5Mbps

Operation Mode: Transmitting under CH04 for 11n HT40 at 6.5Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
4874.00	49.66 (PK)	Н	74(Peak)/ 54(AV)
4874.00	49.53 (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 6.5Mbps

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

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Operation Mode: Transmitting under CH07 for 11n HT40 at 6.5Mbps

	0		1
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
4904	50.32 (PK)	Н	74(Peak)/ 54(AV)
4904	50.08 (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

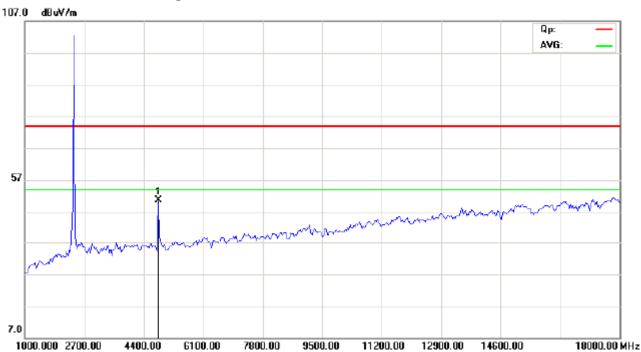
3. For 802.11n (HT40) mode 6.5Mbps

Date: 2016-03-30

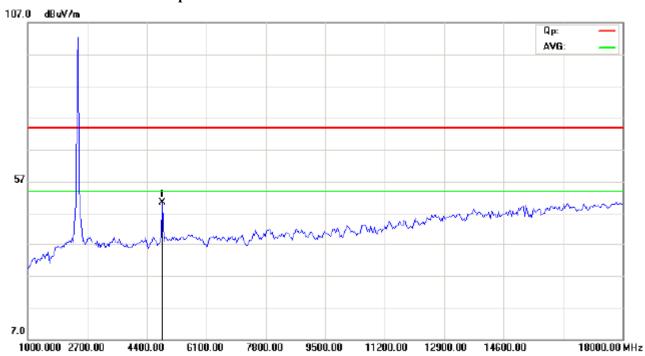


Please refer to the following test plots for details:

CH01 for 11n HT40 at 6.5Mbps: Horizontal



CH01 for 11n HT40 at 6.5Mbps: Vertical



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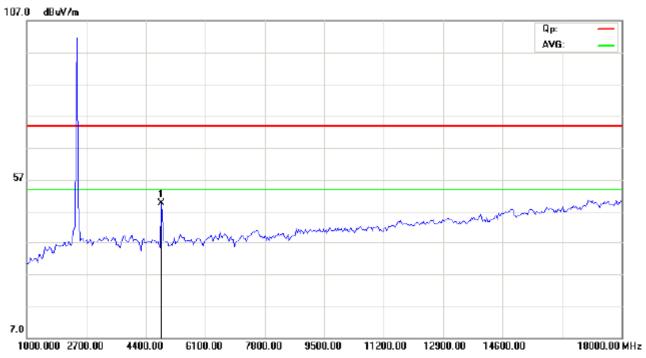
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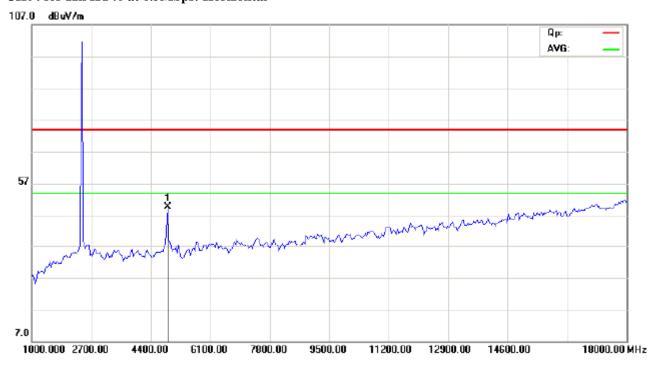
Date: 2016-03-30



CH04 for 11n HT40 at 6.5Mbps: Vertical



CH04 for 11n HT40 at 6.5Mbps: Horizontal



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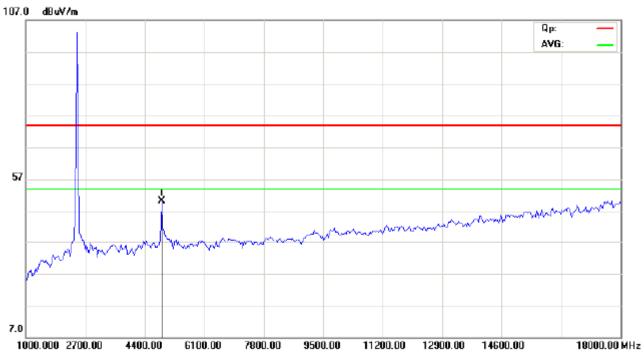
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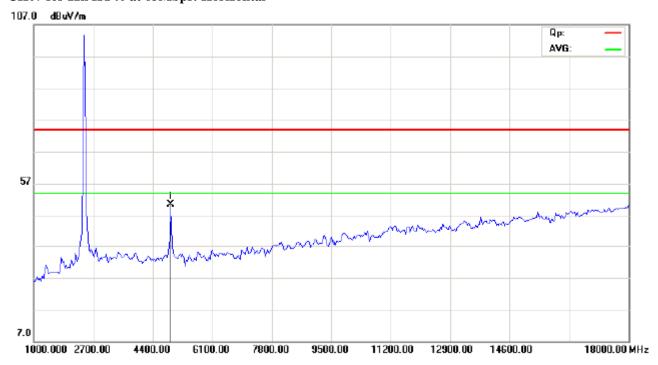
Date: 2016-03-30



CH07 for 11n HT40 at 6.5Mbps: Vertical



CH07 for 11n HT40 at 65Mbps: Horizontal



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

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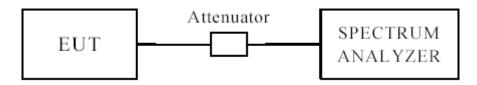
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7.0 6dB Bandwidth Measurement

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 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Occupied Bandwidth

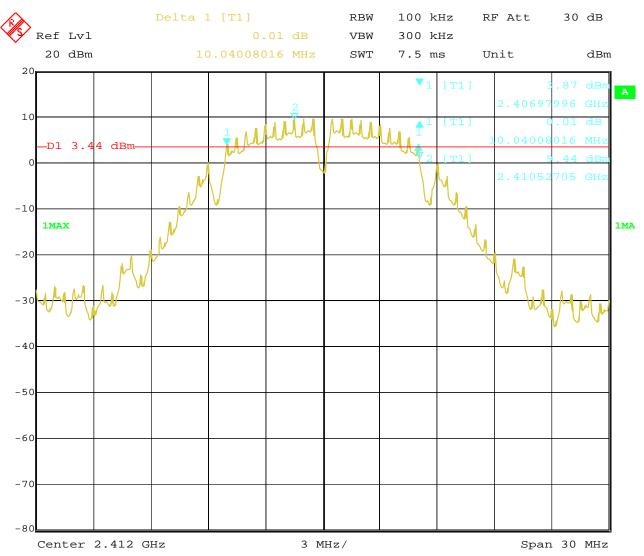
EUT		smar	t phone		Model		D3	351W
Mode		802	2.11b		Input Voltage		DC3.7V	
Temperature		24 c	leg. C,		Humidity		569	% RH
Channel	el Channel Frequency (MHz)		Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)		N	finimum Limit (MHz)	Pass/ Fail
1		2412	1	10.04			0.5	Pass
6		2437	1	10.04			0.5	Pass
11		2462	1		10.04		0.5	Pass
1		2412 11 10.04		10.04		0.5	Pass	
6	2437 11			10.04		0.5	Pass	
11	1 2462 11		11		10.04		0.5	Pass

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1. 802.11b at 1Mbps of CH01

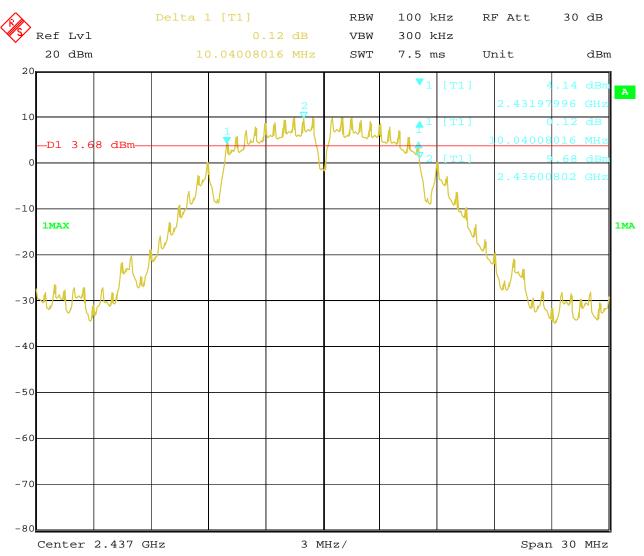


Date: 19.MAR.2016 13:58:37 Report No.: FCC1603086-01 Page 41 of 103

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2. 802.11b at 1Mbps of CH06

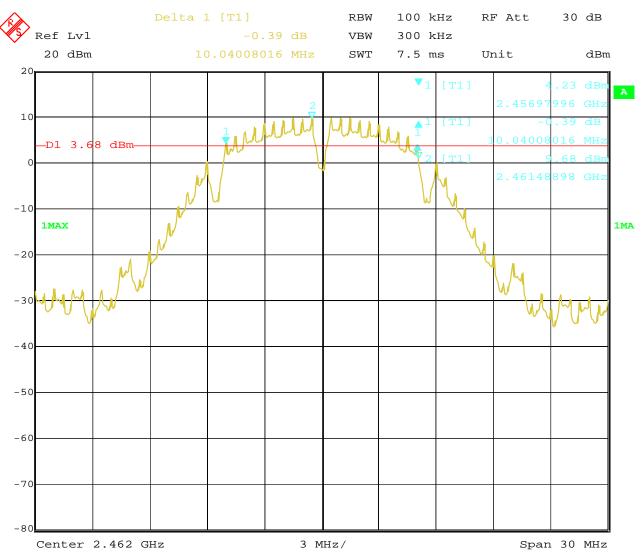


Date: 19.MAR.2016 14:18:04 Report No.: FCC1603086-01 Page 42 of 103

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3. 802.11b at 1Mbps of CH11

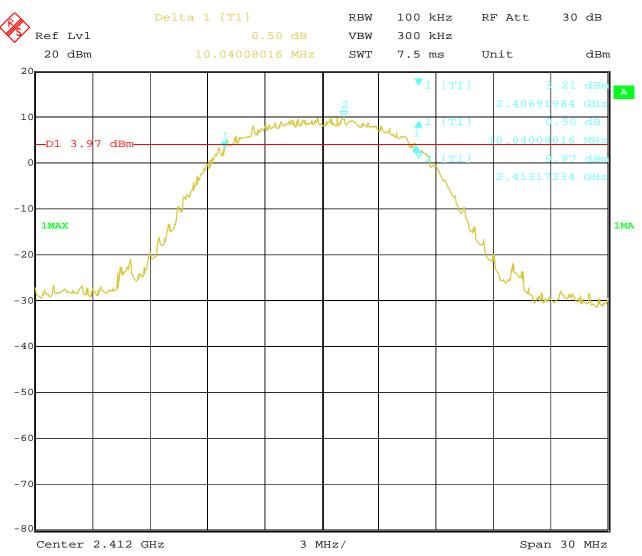


Date: 19.MAR.2016 14:27:15 Report No.: FCC1603086-01 Page 43 of 103

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4. 802.11b at 11Mbps of CH01

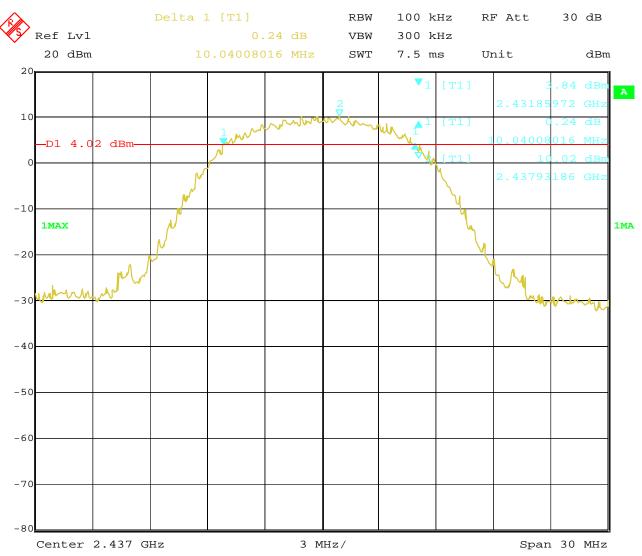


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5. 802.11b at 11Mbps of CH06

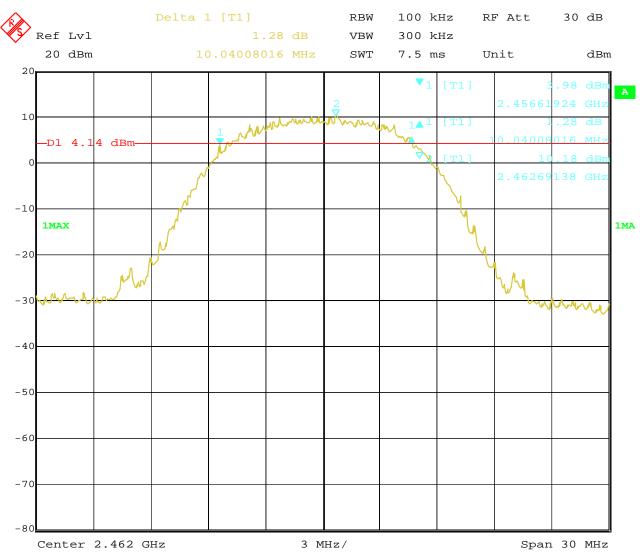


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6. 802.11b at 11Mbps of CH11



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6dB Occupied Bandwidth

EUT		smar	t phone		Model		D351W	
Mode	Mode 8		02.11g		Input Voltage		DC3.7V	
Temperat	Temperature 24		deg. C, Hun		Humidity	569		% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)	asfer 6 dB Bandwidth Mate (MHz)		Iinimum Limit (MHz)	Pass/ Fail	
1		2412	54		15.81		0.5	Pass
6		2437	54		15.81		0.5	Pass
11		2462 54			15.81		0.5	Pass

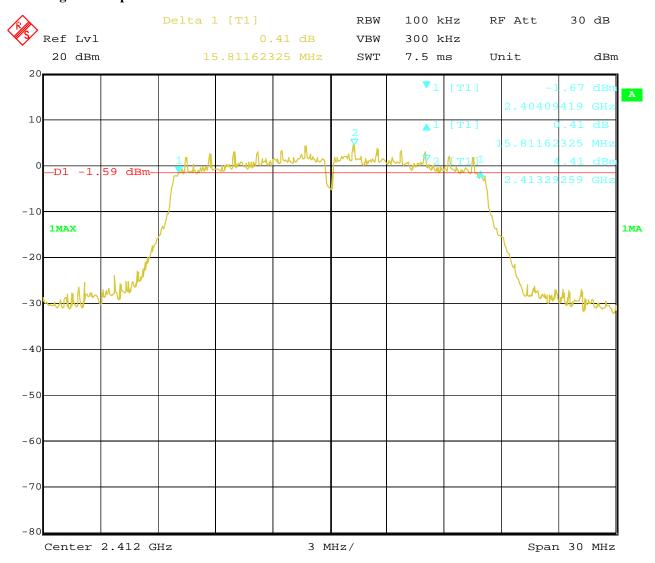
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Test Plots:

1. 802.11g at 54Mbps of CH01

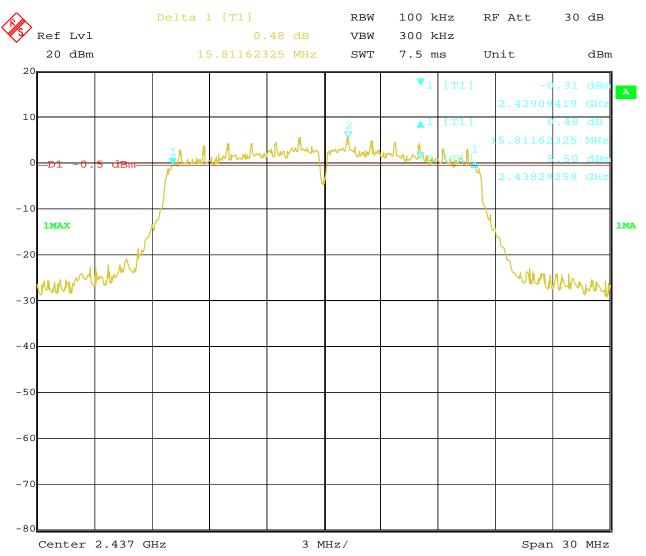


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2. 802.11g at 54Mbps of CH06

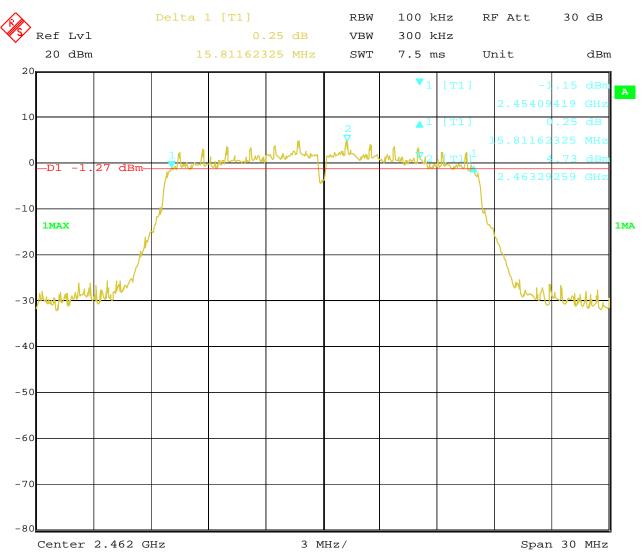


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3. 802.11g at 54Mbps of CH11



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6dB Occupied Bandwidth

EUT		smart	phone		Model		D3	51W
Mode	Iode 802.1		In HT20 Input Voltage			DC3.7V		
Temperat	ure	24 de	leg. C, Humidity			56% RH		
Channel		el Frequency (MHz)	Data Transfer 6 dB Bandwidth Rate (MHz) (Mbps)			N	Minimum Limit (MHz) Pass/ Fa	
1		2412	6.5M		17.07		0.5	Pass
6		2437	6.5M	17.07			0.5	Pass
11	2462 6.5N		6.5M		17.07		0.5	Pass

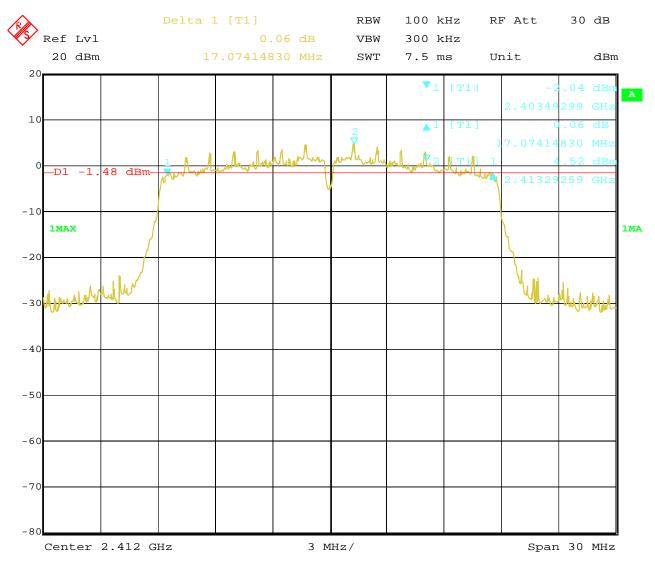
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Test Plots:

1. 802.11n at HT20 of CH01

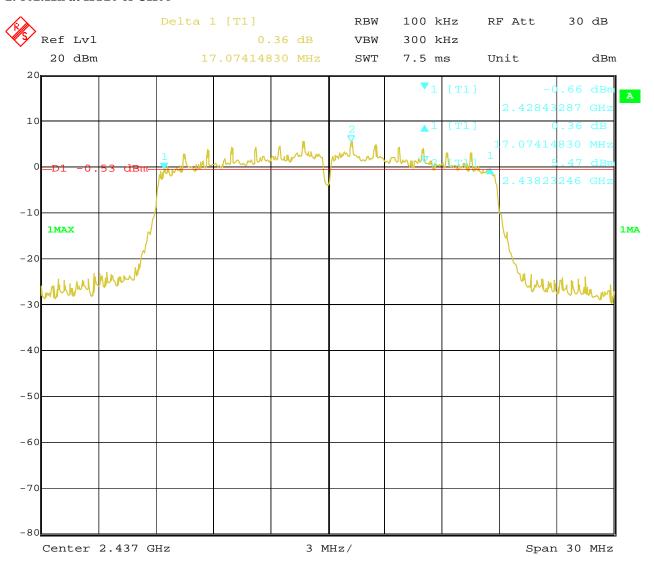


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2. 802.11n at HT20 of CH06

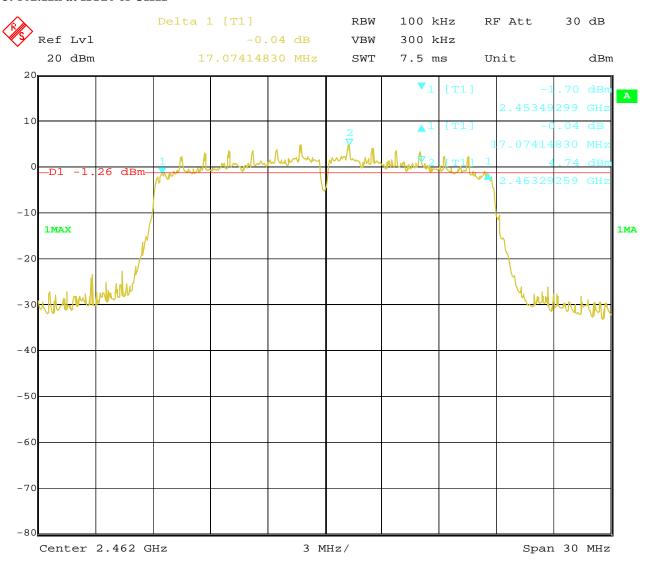


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3. 802.11n at HT20 of CH11



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6dB Occupied Bandwidth

EUT		smart	phone		Model	D351	lW
Mode		802.11	n HT40		Input Voltage	DC3.	7V
Temperat	ure	24 de	eg. C,		Humidity	56%	RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)	6	dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1		2422	6.5M		35.42	0.5	Pass
4		2437	6.5M		35.42	0.5	Pass
7		2452	6.5M		35.42	0.5	Pass

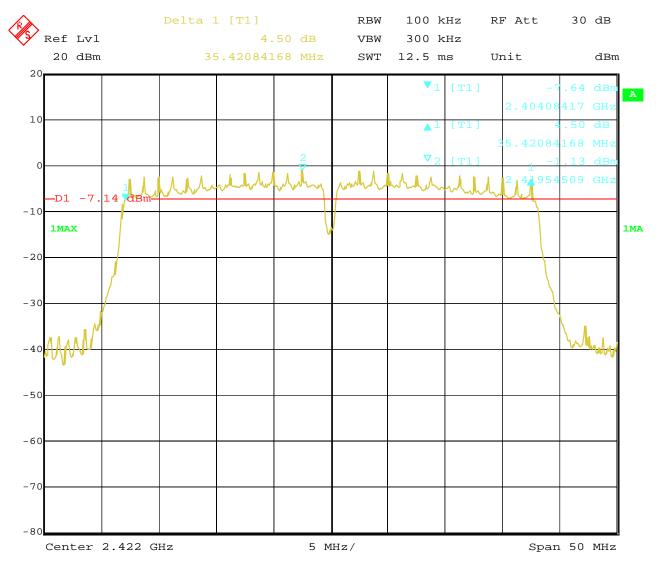
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Test Plots:

1. 802.11n at HT40 of CH01

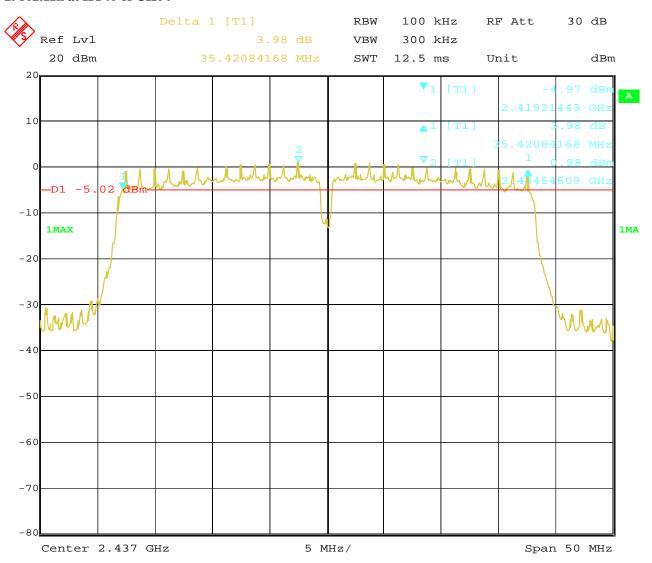


Date: 19.MAR.2016 14:51:38 Report No.: FCC1603086-01 Page 56 of 103

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2. 802.11n at HT40 of CH04

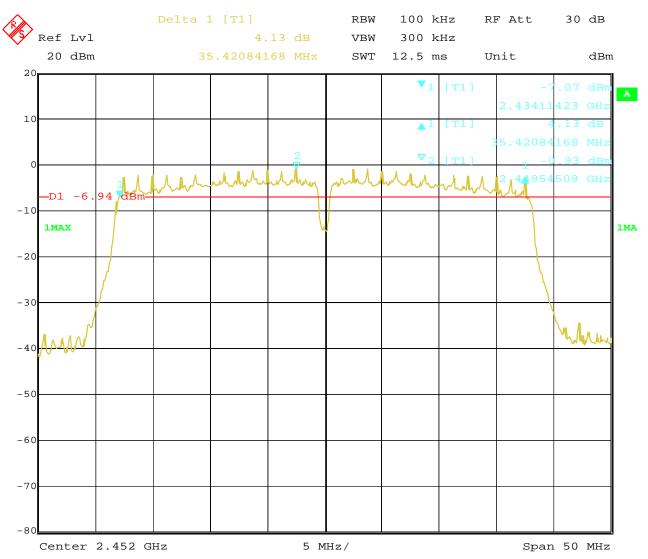


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3. 802.11n at HT40 of CH07



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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.

Note: the Peak and Average power were measured.

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8.4Test Results

EUT		smart pho	ne	Model			D351W
Mode		802.11b		Input Voltage		DC3.7V	
Temperature		24 deg. C	·,	Humidity	,		56% RH
Channel	Cha	annel Frequency (MHz)	Max. Power Output (dBm)			wer Limit (dBm)	Pass/ Fail
		(MHZ)	Peak	Average		(ubili)	
				11Mbps			
1		2412	24.69	16.95		30	Pass
6		2437	24.64	17.25		30	Pass
11		2462	24.35	17.31 30		30	Pass
				1Mbps			
1		2412 2		17.61		30	Pass
6	2437		22.16	17.66		30	Pass
11		2462	21.60	17.76		30	Pass

Note: 1. The result basic equation calculation as follow:

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

2. The worse case was recorded

EUT		smart phon	e	Model			D351W
Mode	Mode 802.1			Input Voltage		DC3.7V	
Temperati	Temperature 24 deg. C		, Humidity			56% RH	
Channel	Channel Frequency		Max. Power Output (dBm)		P	ower Limit (dBm)	Pass/ Fail
		(MHz)	Peak	Average		(dDIII)	
1		2412	22.89	13.81		30	Pass
6	2437 24.0		24.08	14.90		30	Pass
11		2462	22.91	13.91		30	Pass

Note: 1. At finial test to get the worst-case emission at 54Mbps 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		smart phone	e		Model]	D351W
Mode	Mode 802.11n (H		20) Input Voltage		;	DC3.7V		
Temperati	Temperature 24 deg. C,		Humidity			56% RH		
Channel	Cha	annel Frequency	Max. Power Output (dBm)		I	Power Limit	Pass/ Fail	
		(MHz)	Peak	[Average		(dBm)	
1		2412	23.07	7	13.75		30	Pass
6		2437 24.4		3	14.85		30	Pass
11	11 2462		23.40)	13.84		30	Pass

Note: 1. At finial test to get the worst-case emission at 6.5Mbps 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		smart phone	e		Model			D351W
Mode	Mode 802.11n (HT		40) Input Voltage		DC3.7V			
Temperat	emperature 24 deg. C,		Humidity		56% RH			
Channel	Cha	annel Frequency	Max. Power Output (dBm)		F	Power Limit	Pass/ Fail	
		(MHz)	Peak	:	Average		(dBm)	
1		2422 21.1			11.04		30	Pass
4		2437 23.19)	13.16		30	Pass
7		2452	21.26	5	11.05		30	Pass

Note: 1. At finial test to get the worst-case emission at 6.5Mbps of 11n HT40 for CH01, CH04 and CH7

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

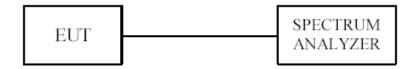
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9. Power Spectral Density Measurement

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		smart phone		Model	Model		D351W
Mode		802.11b 11Mbps		Input Voltage		DC3.7V	
Temperature		24 deg. C	24 deg. C,		Humidity		6% RH
Channel	Channel Channel Frequency (MHz)			Final RF Power Level (dBm)		ximum Limit (dBm)	Pass/ Fail
				11Mbps			
1		2412		0.83		8	Pass
6 2437			0.70		8	Pass	
11		2462		1.39		8	Pass

EUT		smart phon	ie	Model		I	D351W
Mode		802.11b 1Mbps		Input Voltag	Input Voltage		OC3.7V
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Cha	annel Frequency	Final RF Power		Max	kimum Limit	Pass/ Fail
Chamilei		(MHz)	Leve	el in (dBm)		(dBm)	
				1Mbps			
1	1 2412			0.02		8	Pass
6		2437		-0.12		8	Pass
11		2462		0.05		8	Pass

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EUT		smart phone	;	Model		D351W		
Mode	Mode 802.11g		ps	Input Voltage		DC3.7V		
Temperat	Temperature 24 deg		, Humidity			56	% RH	
Channel	Cha	annel Frequency (MHz)	Final RF Power Level in (dBm)		M	Taximum Limit (dBm)	Pass/ Fail	
				54Mbps				
1		2412		-5.51		8	Pass	
6	6 2437			-3.59		8	Pass	
11		2462		-4.24		8	Pass	

EUT		smart phone	;	Model		D351W	
Mode	Mode 80		802.11n HT20 6.5Mbps		Input Voltage		C3.7V
Temperati	ure	24 deg. C,		Humidity		56	% RH
Channel	Cha	annel Frequency	Final RF Power		M	laximum Limit	Pass/ Fail
Chamiei		(MHz)	I	Level (dBm)		(dBm)	
				HT20			
1		2412		-4.80		8	Pass
6	6 2437			-4.51		8	Pass
11		2462		-5.03		8	Pass

EUT		smart phone		Model		D351W	
Mode		802.11n HT40		Input Voltage		DC3.7V	
		6.5Mbps					
Temperature		24 deg. C,		Humidity		569	% RH
Channel	Channel Frequency		Fi	Final RF Power		laximum Limit	Pass/ Fail
	(MHz)		Level (dBm)			(dBm)	
HT40							
1	2422			-10.08		8	Pass
4	2437			-8.61		8	Pass
7	2452			-10.37		8	Pass

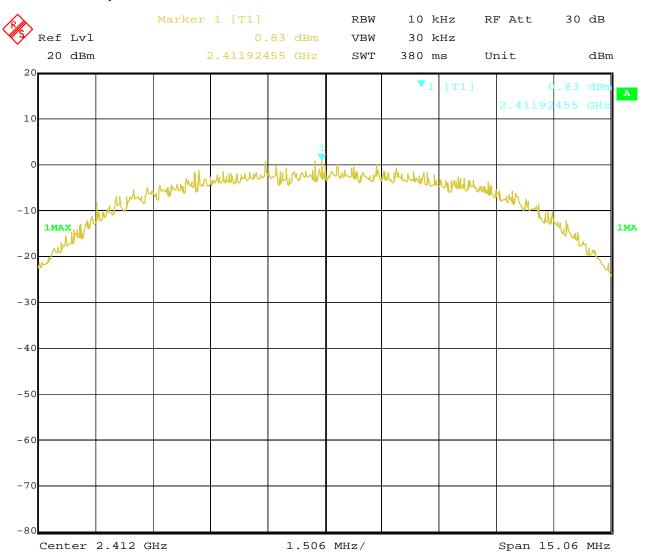
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01



Date: 21.MAR.2016 09:32:34

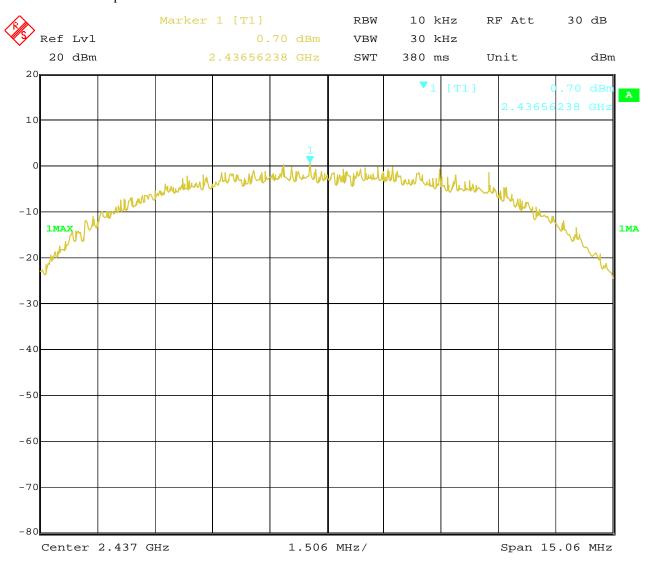
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2. 802.11b at 11Mbps at CH06



Date: 21.MAR.2016 09:33:14

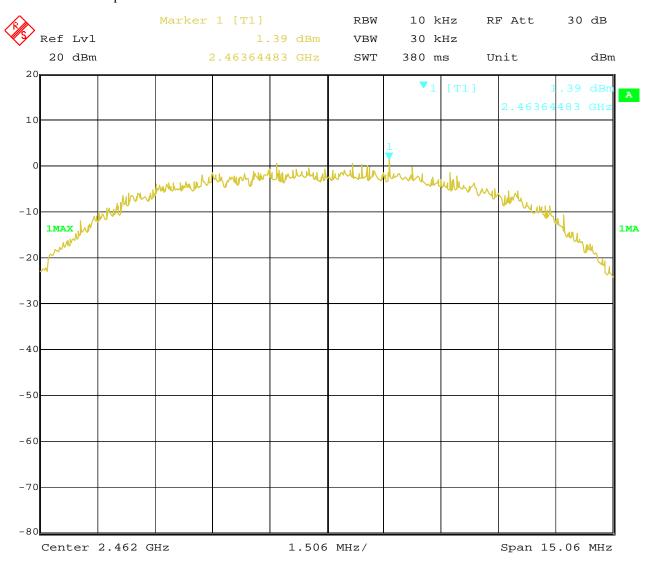
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3. 802.11b at 11Mbps of CH11



Date: 21.MAR.2016 09:33:40

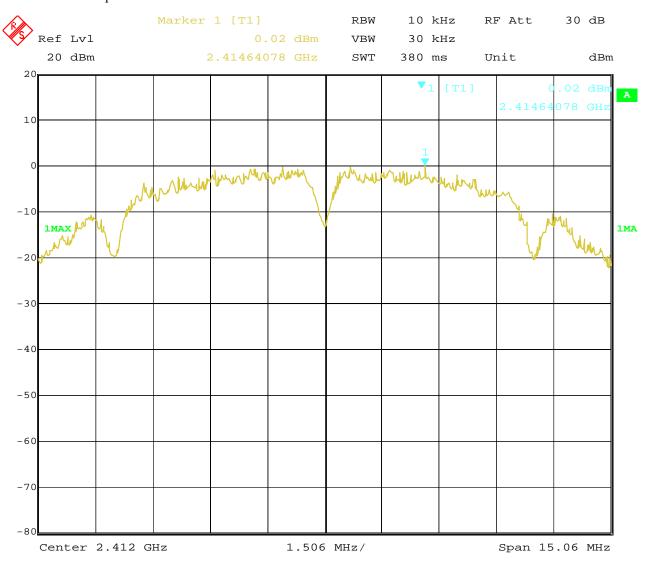
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4. 802.11b at 1Mbps of CH1



Date: 21.MAR.2016 09:37:19

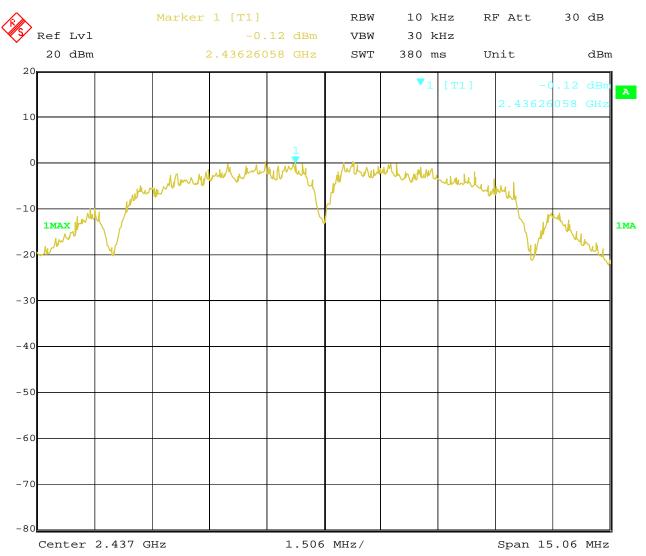
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5. 802.11b at 1Mbps of CH6



Date: 21.MAR.2016 09:36:50

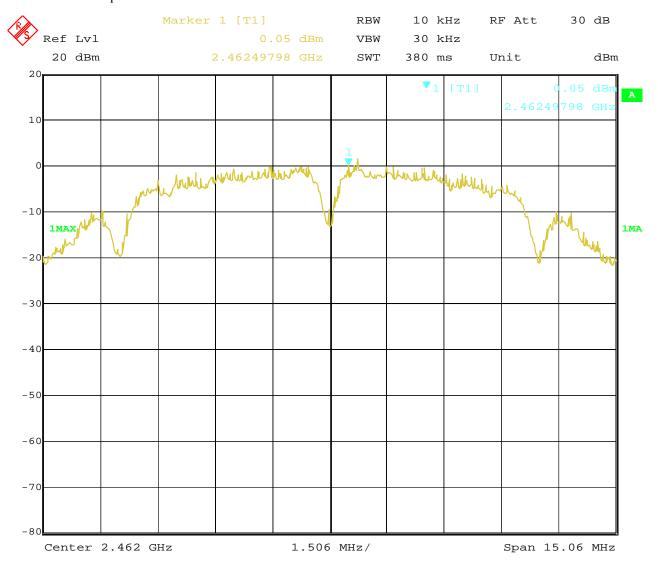
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6. 802.11b at 1Mbps of CH11



Date: 21.MAR.2016 09:38:00

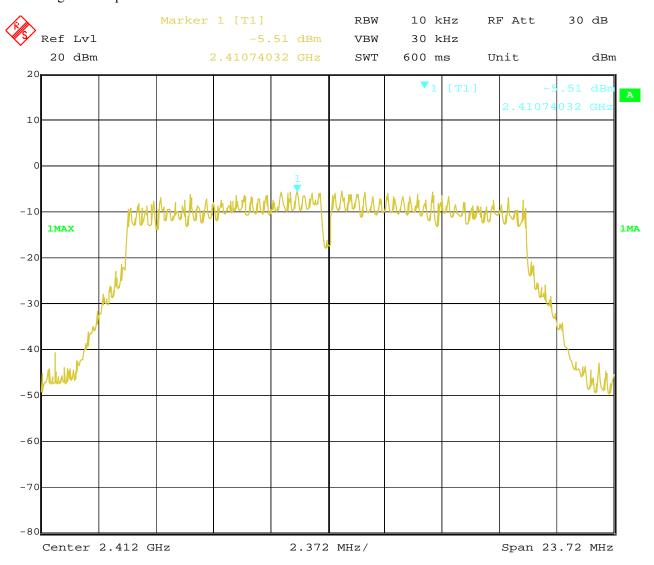
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7. 802.11g at 54Mbps of CH1

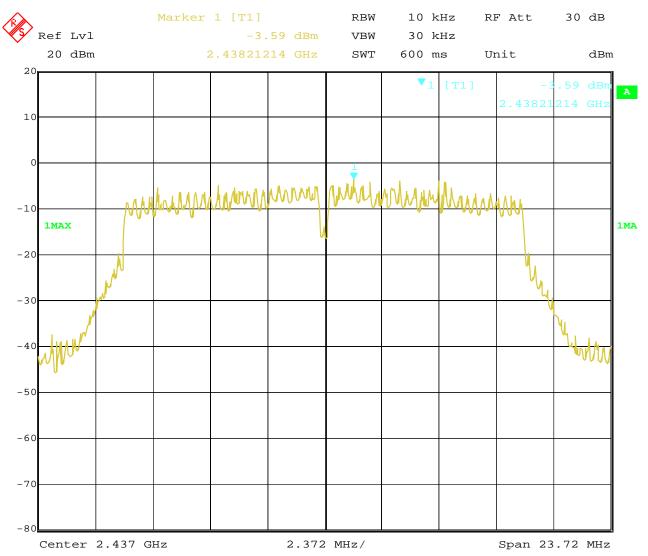


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8. 802.11g at 54Mbps of CH6

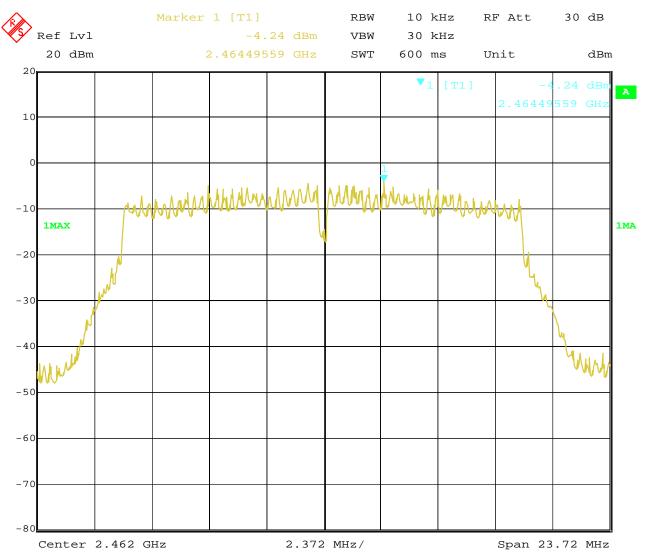


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9. 802.11g at 54Mbps of CH11

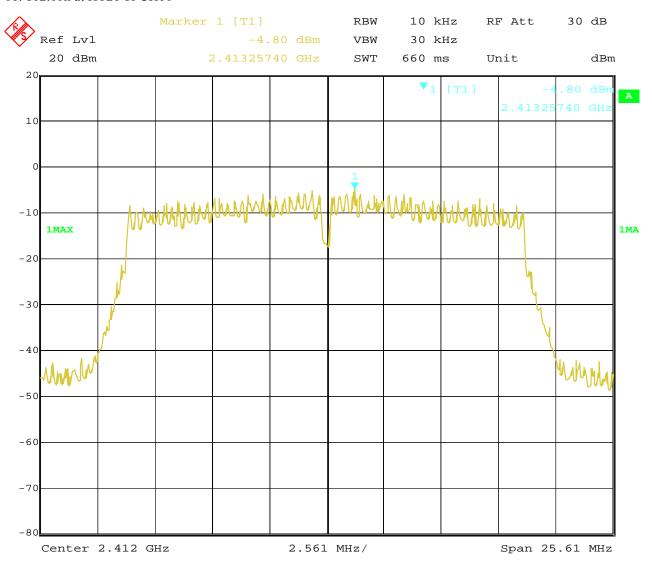


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10. 802.11n at HT20 of CH01

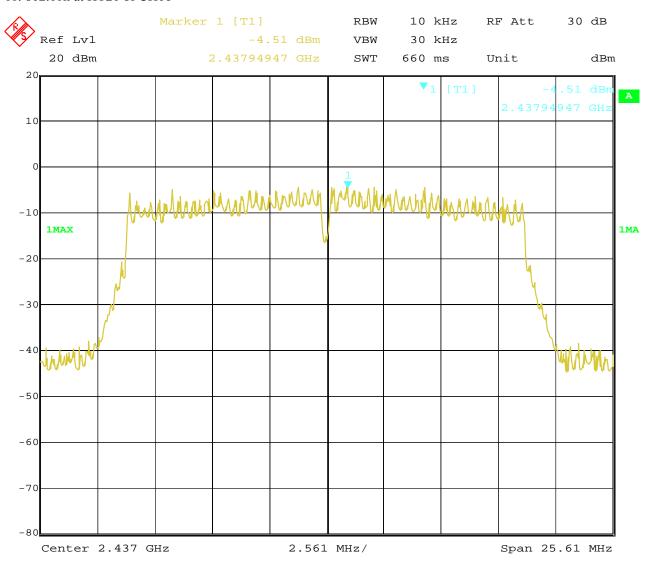


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11. 802.11n at HT20 of CH06

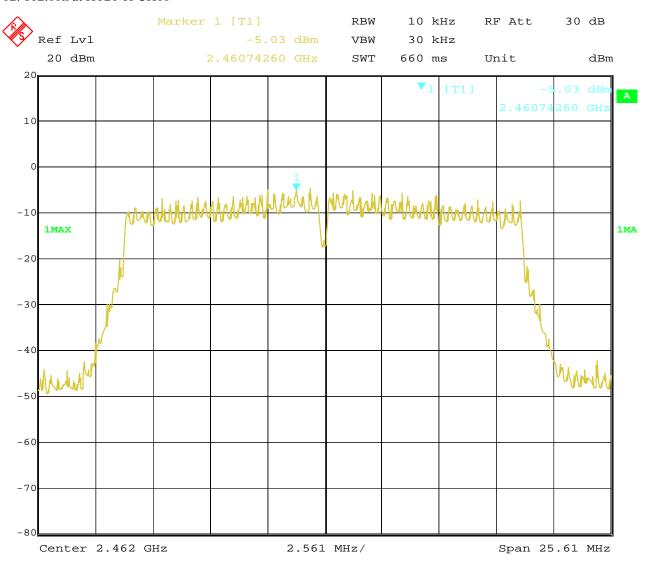


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12. 802.11n at HT20 of CH11

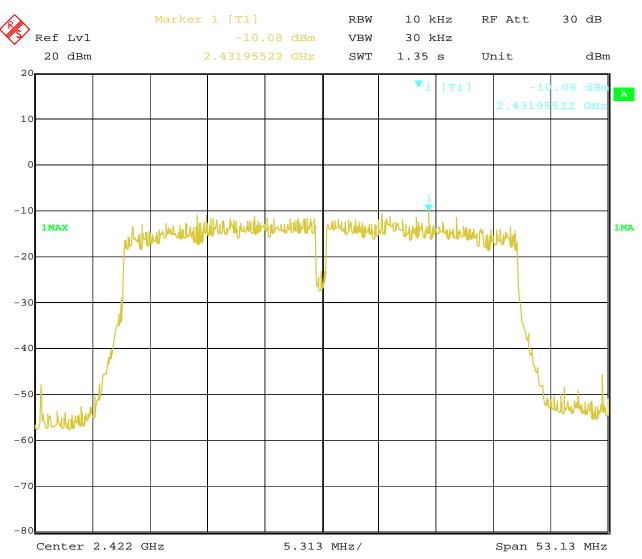


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13. 802.11n at HT40 of CH01

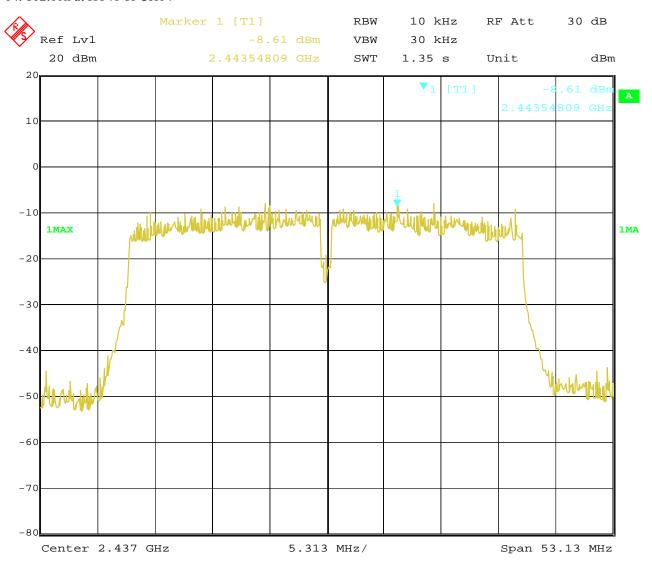


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14. 802.11n at HT40 of CH04

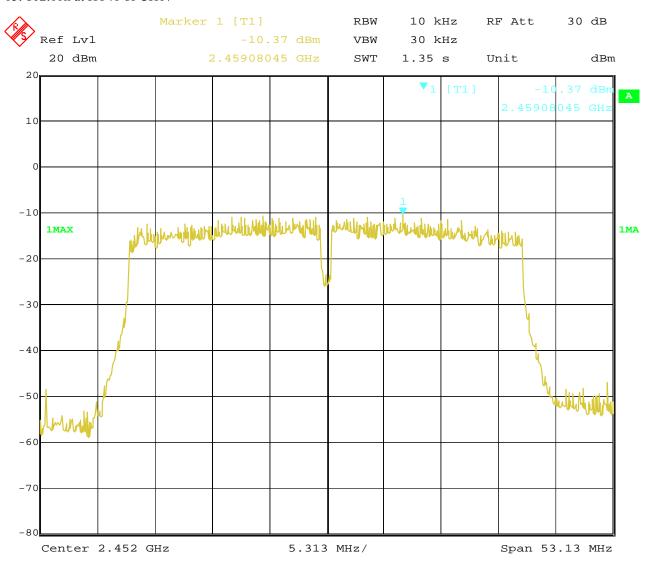


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15. 802.11n at HT40 of CH07

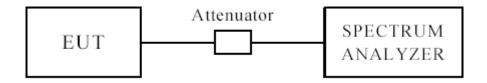


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10 Out of Band Measurement 10.1 Test Setup for band edge



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=1MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100, 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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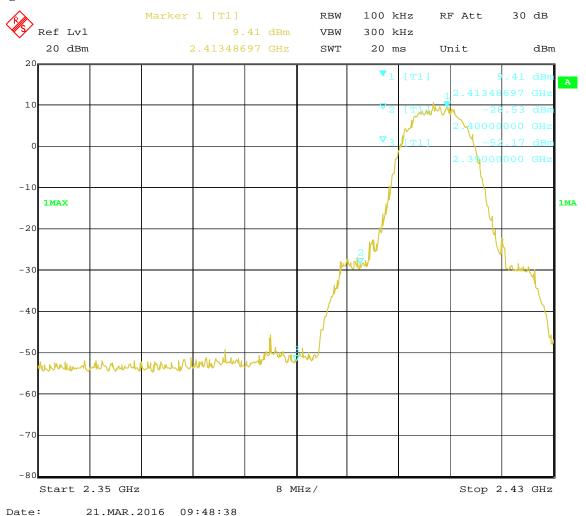
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBµV/m)	68.6	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	39.5	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	48.2	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

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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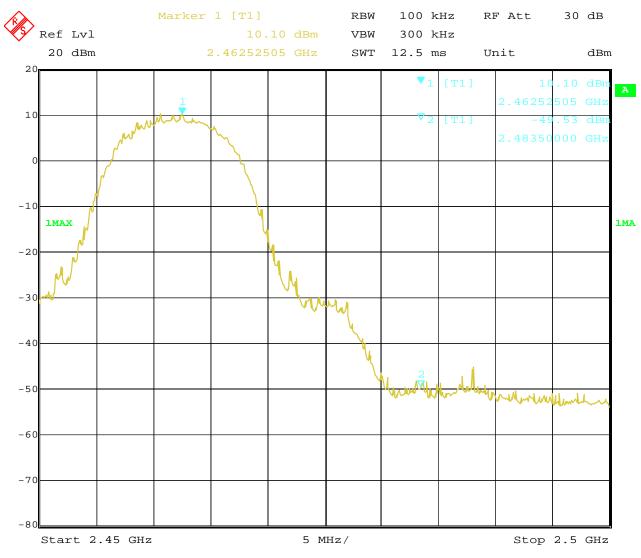


CH11 at 11Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	52.8	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)	33.1	Limit	54(dBμV/m)

Test Figure:



Date: 21.MAR.2016 09:49:21

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

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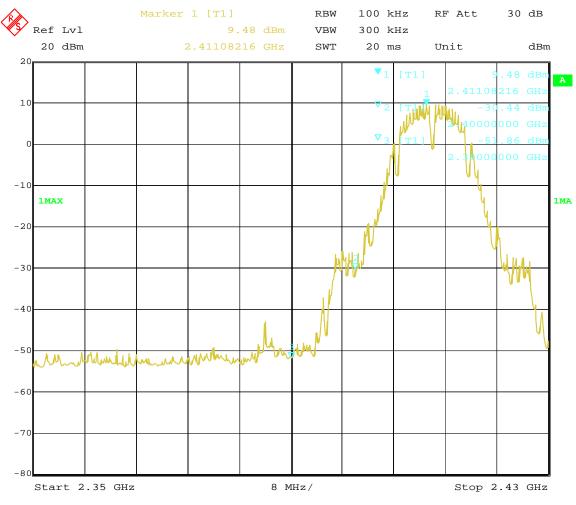
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBμV/m)	69.1	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	39.3	Limit	$54(dB\mu V/m)$
2390	PK (dBμV/m)	49.6	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

Test Figure:



Date: 21.MAR.2016 09:46:42

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

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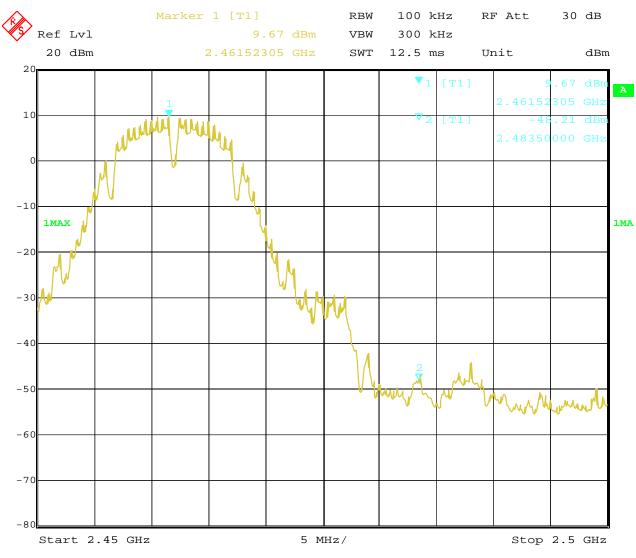


CH11 at 1Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	53.9	T 114	$74(dB\mu V/m)$
	AV (dBμV/m)	33.8	Limit	54(dBμV/m)

Test Figure:



Date: 21.MAR.2016 09:50:09

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

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Date: 2016-03-30



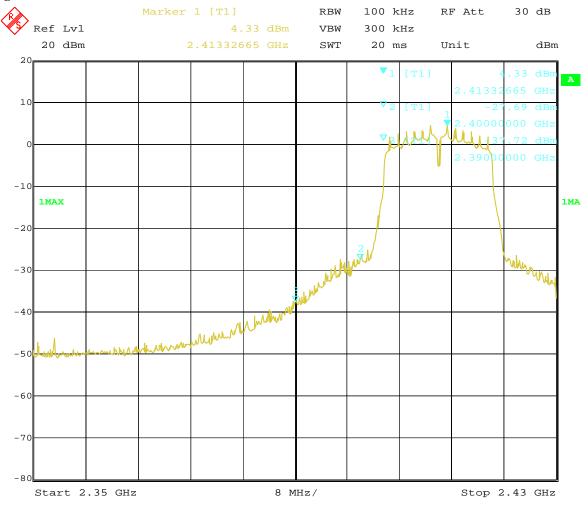
For 802.11g mode

CH01 at 54Mbps

Band-edge and Restricted band Measurement 10.4

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBμV/m)	70.5	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	50.1	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	58.3	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	39.2	Dillif	$54(dB\mu V/m)$

Test Figure:



21.MAR.2016 09:48:10

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

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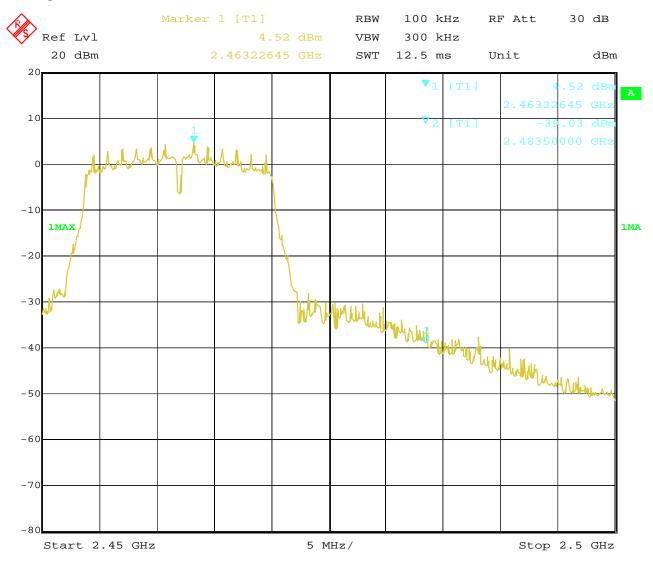


CH11 at 54Mbps

10.4 Band-edge and Restricted band Measurement

	6					
EUT	smart phone		Mod	lel	D351W	
Mode	Keeping Transmitting		Input Vo	oltage	DC3.7V	
Temperature	24 deg. C,		Humi	dity	56% RH	
Test Result:	Pass		Detec	etor	PK	
2483.5	PK (dBµV/m)	58.7	T ::4	$t = \frac{74(dB\mu V/m)}{54(dB\mu V/m)}$		
	AV (dBμV/m)	39.2	Limit			

Test Figure:



Date: 21.MAR.2016 09:49:47

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

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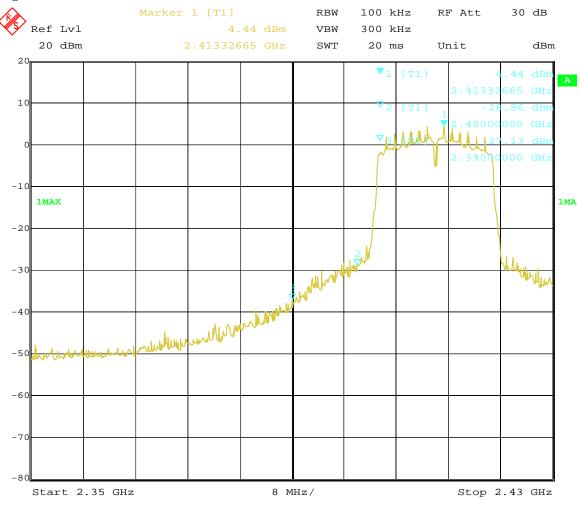
For 802.11n (HT20) mode

CH01 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass		PK
2400	PK (dBµV/m)	70.1	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	49.6	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	57.6	Limit	74(dBµV/m)
	AV (dBμV/m)	38.0	Lillit	$54(dB\mu V/m)$

Test Figure:



Date: 21.MAR.2016 09:44:47

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

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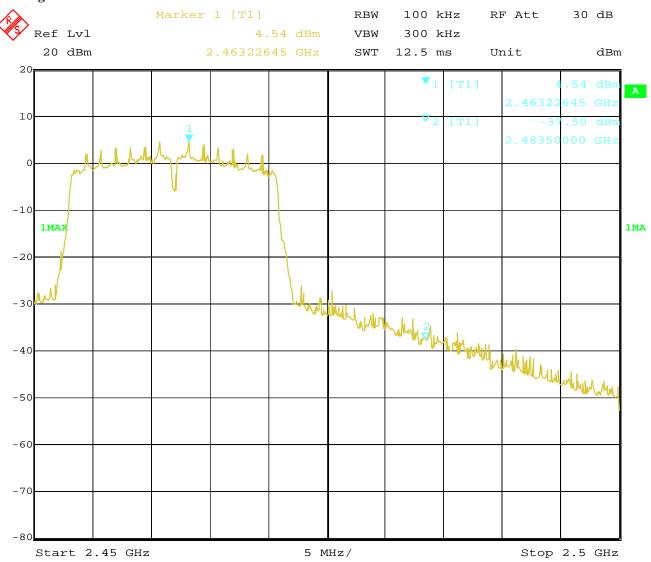


CH11 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	58.6	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)	39.3	Limit	$54(dB\mu V/m)$

Test Figure:



Date: 21.MAR.2016 09:50:45

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

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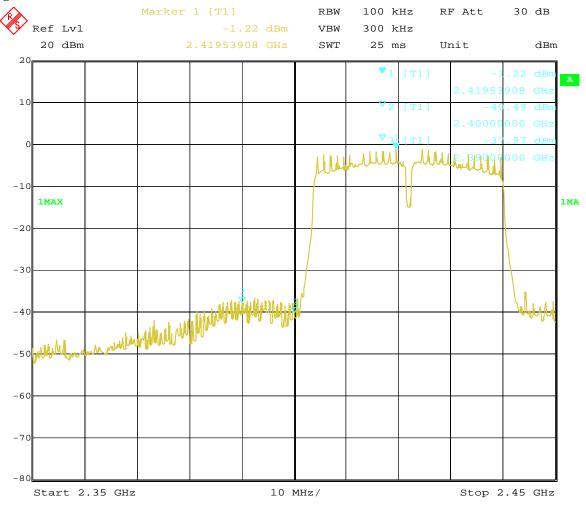
For 802.11n (HT40) mode

CH01 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:		Pass	Detector	PK
2400	PK (dBμV/m)	68.8	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)	49.2	Limit	54(dBµV/m)
2390	PK (dBµV/m)	59.6	Limit	74(dBμV/m)
	AV (dBμV/m)	40.3	Lillit	54(dBµV/m)

Test Figure:



Date: 21.MAR.2016 09:44:06

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

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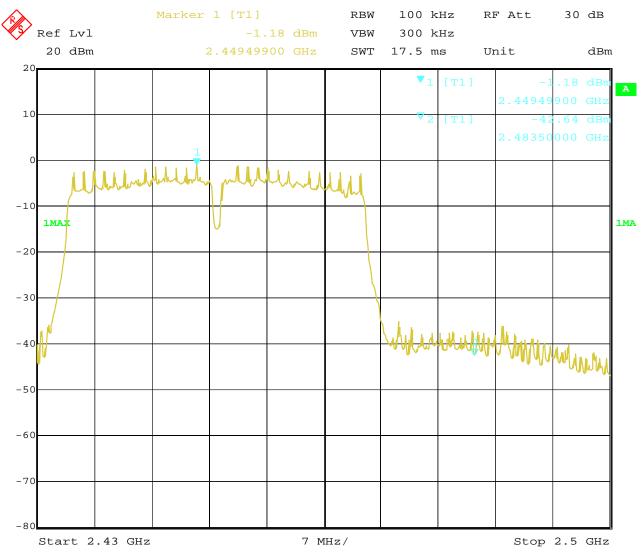


CH7 at 6.5Mbps

10.4 Band-edge and Restricted band Measurement

EUT	smart phone		Model	D351W
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	62.2	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)	42.6	Limit	54(dBμV/m)

Test Figure:



Date: 21.MAR.2016 09:42:49

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 3.0dBi.

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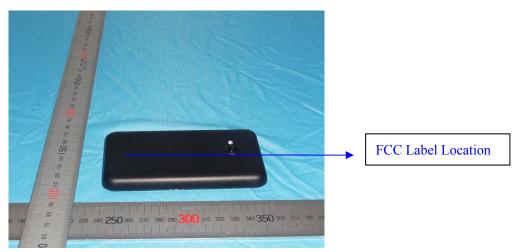


12.0 FCC ID Label

FCC ID: 2ABDT-D351W

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:



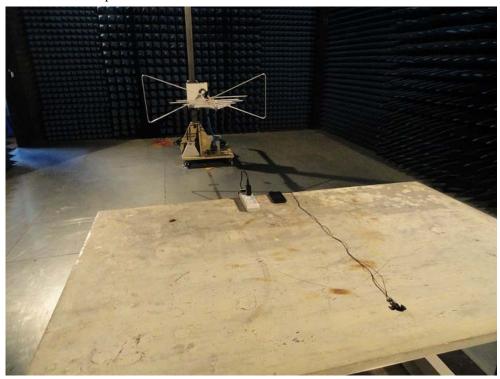
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Radiated Emission Test Setup:





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Photographs - EUT

Outside view





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Outside view





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Outside view





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Inside view





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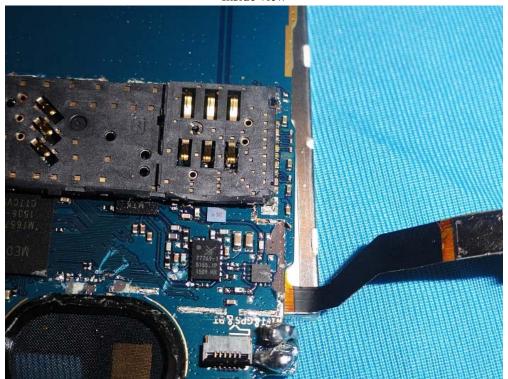
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Inside view



End of the report