

Report No.: SZEM150800500202

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FCC REPORT

Application No: SZEM1508005002CR

Applicant: Shenzhen Sunshine Technology Development Co., Ltd **Manufacturer/ Factory:** Shenzhen Sunshine Technology Development Co., Ltd

Product Name: IP Camera

Model No.(EUT): 3D01 Trade Mark: Non

FCC ID: 2AEUS-D013D01789

Standards: 47 CFR Part 15, Subpart C (2014)

Date of Receipt: 2015-08-13

Date of Test: 2015-08-14 to 2015-08-26

Date of Issue: 2015-08-31

Test Result: PASS *

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record						
Version Chapter Date Modifier Remark						
00		2015-08-31		Original		

Authorized for issue by:		
Tested By	Owen Zhon	2015-08-26
	(Owen Zhou) /Project Engineer	Date
Prepared By	(Vivi Zhou) /Clerk	2015-08-31 Date
Checked By	Chros Thong	2015-08-31
	(Chris Zhong) /Reviewer	Date

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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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5 General Information

5.1 Client Information

Applicant:	Shenzhen Sunshine Technology Development Co., Ltd
Address of Applicant:	4/F, Block 4, HongHuaLing Industrial Park (Zone 2), Taoyuan Str., Xili, Shenzhen, 518055, China.
Manufacturer:	Shenzhen Sunshine Technology Development Co., Ltd
Address of Manufacturer:	4/F, Block 4, HongHuaLing Industrial Park (Zone 2), Taoyuan Str., Xili, Shenzhen, 518055, China.
Factory:	Shenzhen Sunshine Technology Development Co., Ltd
Address of Factory:	4/F, Block 4, HongHuaLing Industrial Park (Zone 2), Taoyuan Str., Xili, Shenzhen, 518055, China.
Supplier:	Shenzhen Sunshine Technology Development Co., Ltd
Country of Origin:	China
Country of Destination:	USA

5.2 General Description of EUT

Product Name:	IP Camera	
Model No.:	3D01	
Trade Mark:	Non	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
	IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
	IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)	
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)	
	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,	
	QPSK,BPSK)	
Sample Type:	Fixed production	
Test Power Grade:	11B : 01 ; 11G : 00 ; 11N : 00 (manufacturer declare)	
Test Software of EUT:	QA Tool (manufacturer declare)	
Antenna Type and Gain:	Type: External	
	Gain:2dBi	
Power Supply:	Adaptor Model:XED-FCC050200C	
	Input:AC100-240V 50/60Hz 0.3A	
	Output:DC5V 2A	

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Operation F	Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Char	nel	Frequency	
1	24	412MHz	4	2427MHz	7	244	12MHz)	2457MHz	
2	24	417MHz	5	2432MHz	8	244	17MHz	11		2462MHz	
3	24	422MHz	6	2437MHz	9	245	2452MHz				
Operation F	requ	ency each	of channe	el(802.11n HT40)						
Channel Frequency Channel Frequency Channe					nel	ı	requency				
1		24221	MHz	4	2437MF	łz	7			2452MHz	
2		24271	MHz	5	2442MF	łz					
3		2432	MHz	6	2447MH	lz					

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz

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5.3 Test Environment and Mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	52 % RH				
Atmospheric Pressure:	1015 mbar				
Test mode:					
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all				
	kind of data rate.				

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
iPhone 6	Apple	MG472ZP/A	C34NHTMFG5MN
Router	NETGEAR	DGN2200	REF. No.SEA2200
TF Card	Kingston	SDC8GB	REF. No.SEA0400
Earphone	PHILIPS	SHE6000	REF. No.SEA1000
Network Cable	SGS	N/A	REF. No.SEA1100
Alarm	supplied by SGS	N/A	N/A

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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5.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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.: 556682.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)		
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2016-05-13		
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24		
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2016-05-13		
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	SEL0162	2015-08-30		
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	SEL0163	2015-08-30		
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	SEL0164	2015-08-30		
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2016-05-13		
8	Coaxial Cable	SGS	N/A	SEL0025	2016-05-13		
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24		
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24		
11	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13		



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	RE in Chamber				Г	
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)	
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13	
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	
3	EMI Test software	AUDIX	E3	SEL0050	N/A	
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24	
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24	
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24	
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13	
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24	
9	Coaxial cable	SGS	N/A	SEL0027	2016-05-13	
10	Coaxial cable	SGS	N/A	SEL0189	2016-05-13	
11	Coaxial cable	SGS	N/A	SEL0121	2016-05-13	
12	Coaxial cable	SGS	N/A	SEL0178	2016-05-13	
13	Band filter	Amindeon	82346	SEL0094	2016-05-13	
14	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13	
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24	
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13	
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24	
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13	

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	RF connected test				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R&S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.



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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:

47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.

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6.2 Conducted Emissions

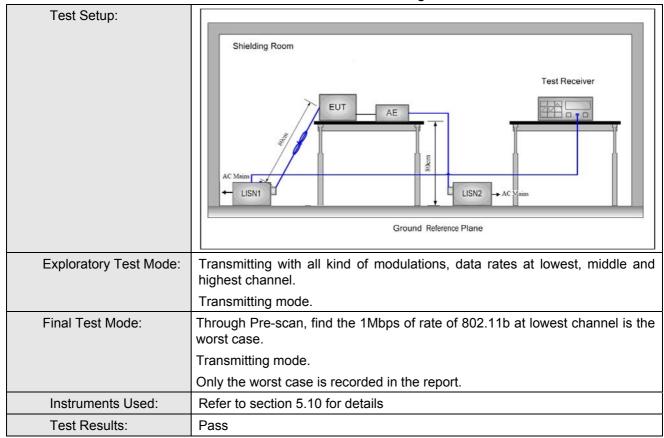
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	F	Limit (d	lBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test Procedure:	1) The mains terminal disturb room. 2) The EUT was connected to Impedance Stabilization N impedance. The power cal connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided the rassingle LISN provided	pance voltage test was a AC power source throetwork) which provides bles of all other units of LISN 2, which was the LISN 1 for the unit less was used to connect ating of the LISN was not be upon a non-metallic And for floor-standing from the vertical ground reference plane, and to a ground reference und reference plane. The of the LISN 1 and the quipment was at least our our emission, the relative	being measured. A multiple power cable to table 0.8m above the arrangement, the I red reference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of the positions of	near bund es to ne EUT ar ne he	

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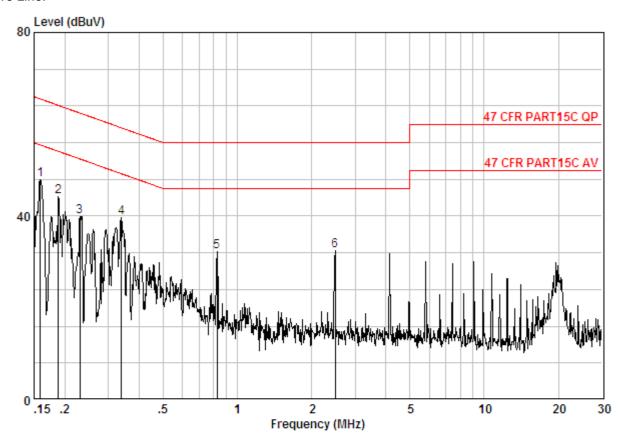
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

Condition : 47 CFR PART15C AV CE LINE

Job No. : 5002CR Test Mode : TX

		Freq		LISN Factor					Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @		0.15900	0.02	9.82	38.02	47.86	55.52	-7.66	Peak
2		0.18838	0.02	9.83	34.44	44.28	54.11	-9.82	Peak
3		0.23040	0.02	9.83	30.09	39.94	52.44	-12.49	Peak
4		0.33920	0.01	9.85	29.79	39.64	49.22	-9.58	Peak
5		0.82608	0.02	9.88	22.26	32.16	46.00	-13.84	Peak
6		2.487	0.02	9.99	22.40	32.41	46.00	-13.59	Peak

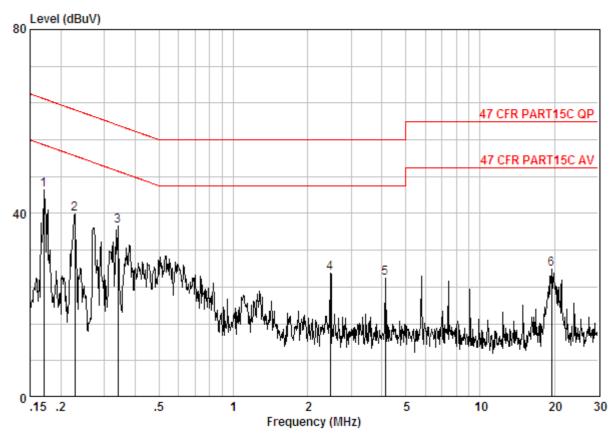
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C AV CE NEUTRAL

Job No. : 5002CR Test Mode : TX

	Freq		LISN Factor					Remark	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB		
1	0.17034	0.02	9.81	35.40	45.23	54.94	-9.71	Peak	
2	0.22797	0.02	9.85	29.93	39.80	52.52	-12.72	Peak	
3	0.34100	0.01	9.87	27.44	37.31	49.18	-11.87	Peak	
4	2.474	0.02	10.12	16.82	26.96	46.00	-19.04	Peak	
5	4.136	0.01	10.13	15.83	25.97	46.00	-20.03	Peak	
6	19.428	0.02	10.37	17.58	27.97	50.00	-22.03	Peak	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10 2009				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:				
Test Instruments:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).				
Limit:	30dBm				
Test Results:	Pass				

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Measurement Data

Weasurement Data								
802.11b mode								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	16.77	30.00	Pass					
Middle	16.98	30.00	Pass					
Highest	17.33	30.00	Pass					
	802.11g mo	de						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	21.00	30.00	Pass					
Middle	21.04	30.00	Pass					
Highest	21.29	30.00	Pass					
	802.11n(HT20)	mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	21.38	30.00	Pass					
Middle	21.30	30.00	Pass					
Highest	21.56	30.00	Pass					
	802.11n(HT40)mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	20.71	30.00	Pass					
Middle	20.74	30.00	Pass					
Highest	20.75	30.00	Pass					



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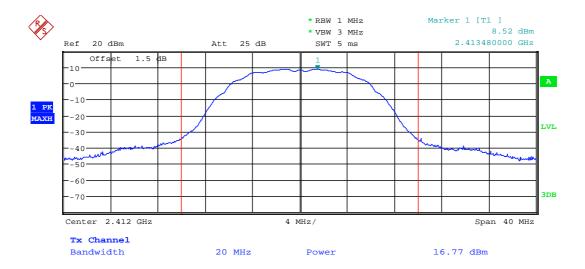


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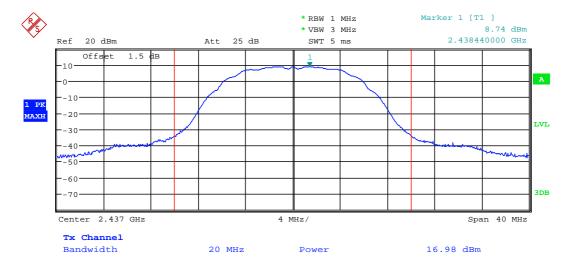
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



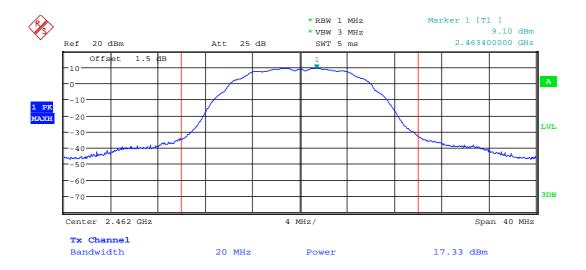
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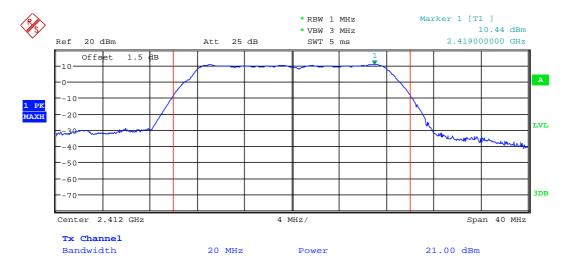
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



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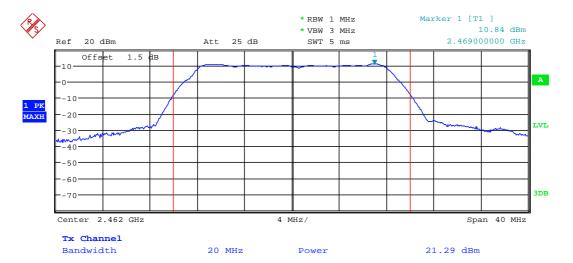
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



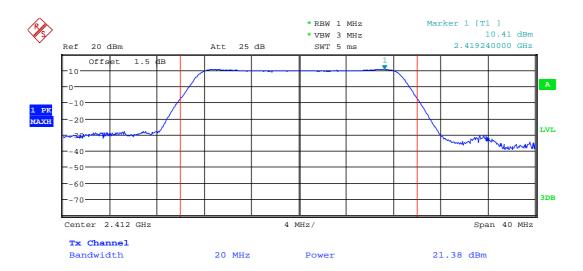
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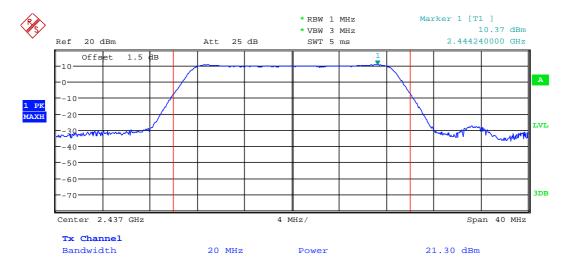
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Test mode: 802.11n(HT20) Test channel: Lowest







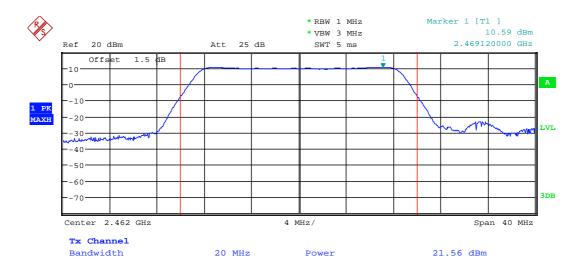
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Test mode: 802.11n(HT20) Test channel: Highest



Test mode: 802.11n(HT40) Test channel: Lowest



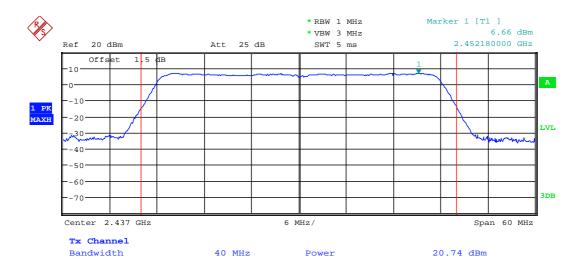
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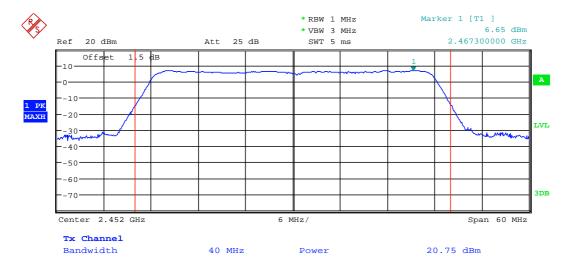
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode: 802.11n(HT40) Test channel: Highest



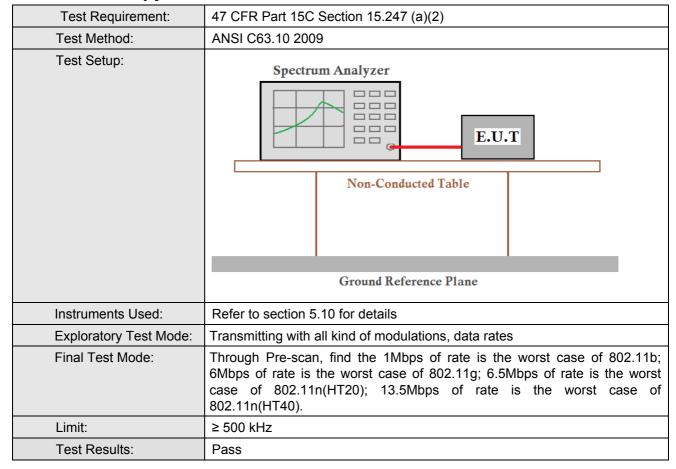
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6.4 6dB Occupy Bandwidth



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Measurement Data

	802.11b mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	10.140	≥500	Pass					
Middle	10.140	≥500	Pass					
Highest	10.140	≥500	Pass					
	802.11g mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	16.650	≥500	Pass					
Middle	16.650	≥500	Pass					
Highest	16.620	≥500	Pass					
	802.11n(HT20) mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	17.670	≥500	Pass					
Middle	17.670	≥500	Pass					
Highest	17.700	≥500	Pass					
	802.11n(HT40)mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	36.480	≥500	Pass					
Middle	36.420	≥500	Pass					
Highest	36.240	≥500	Pass					

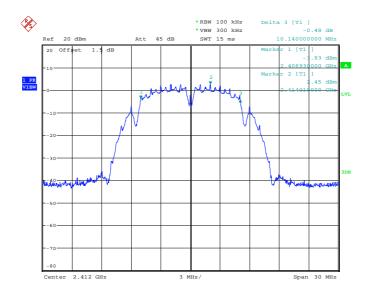


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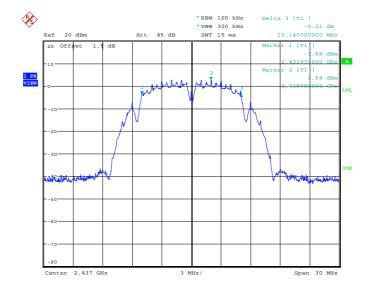
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



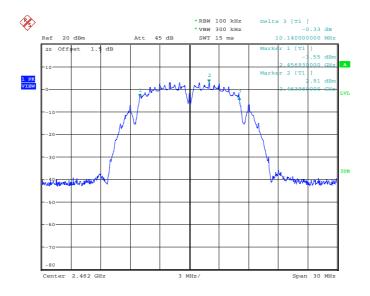
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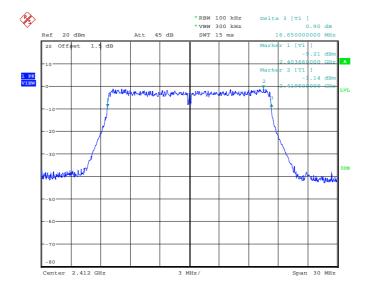
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest





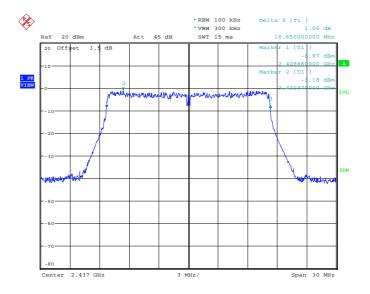
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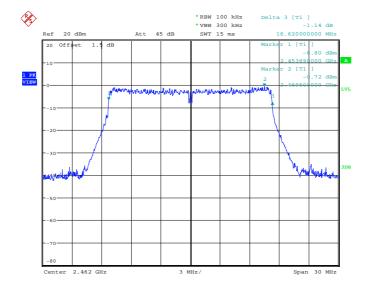
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



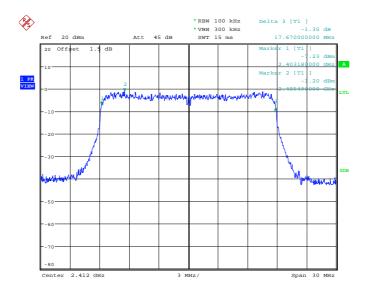
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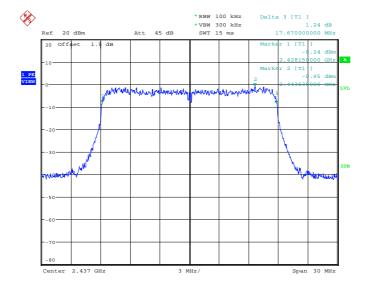
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode: 802.11n(HT20) Test channel: Middle



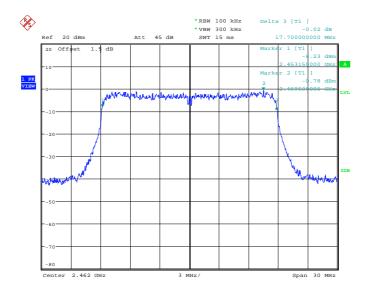
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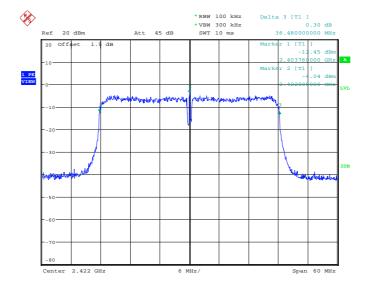
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Test mode: 802.11n(HT20) Test channel: Highest



Test mode: 802.11n(HT40) Test channel: Lowest



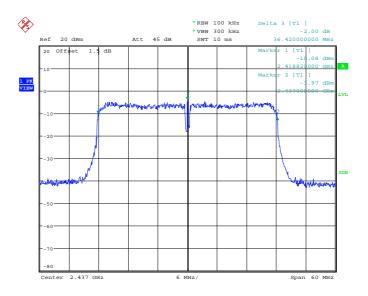
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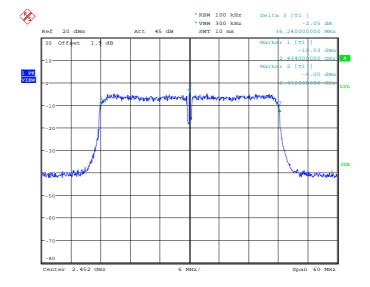
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode: 802.11n(HT40) Test channel: Highest



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)				
Test Method:	ANSI C63.10 2009				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:				
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).				
Limit:	≤8.00dBm/3kHz				
Test Results:	Pass				

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Measurement Data

	802.11b mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result				
Lowest	-8.20	≤8.00	Pass				
Middle	-8.06	≤8.00	Pass				
Highest	-7.95	≤8.00	Pass				
	802.11g mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result				
Lowest	-6.05	≤8.00	Pass				
Middle	-5.96	≤8.00	Pass				
Highest	-5.73	≤8.00	Pass				
	802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result				
Lowest	-6.30	≤8.00	Pass				
Middle	-6.11	≤8.00	Pass				
Highest	-5.93	≤8.00	Pass				
	802.11n(HT40) mode						
Test channel	Power Spectral Density (dBm)	Limit (dBm/3kHz)	Result				
Lowest	-5.67	≤8.00	Pass				
Middle	-5.64	≤8.00	Pass				
Highest	-5.60	≤8.00	Pass				

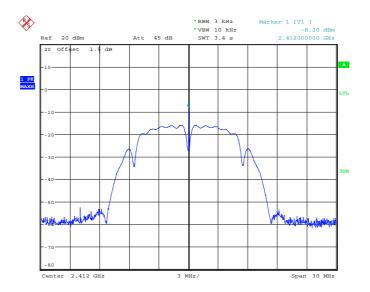


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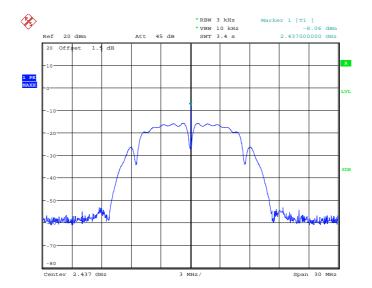
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



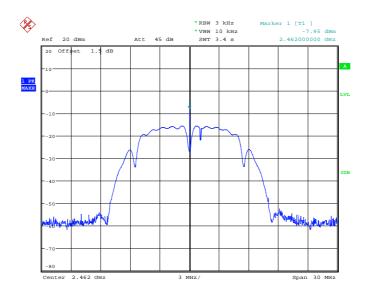
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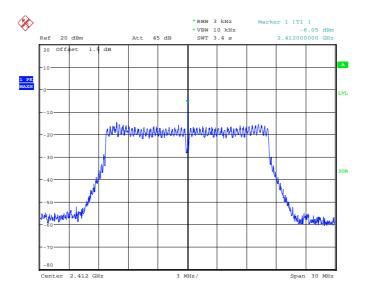
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



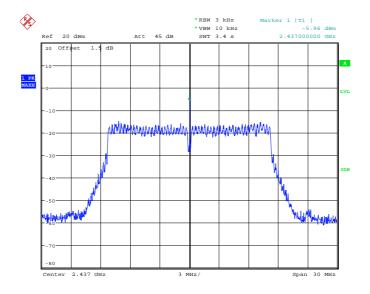
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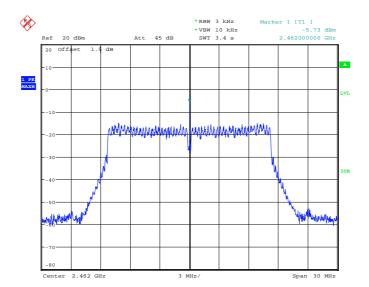
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



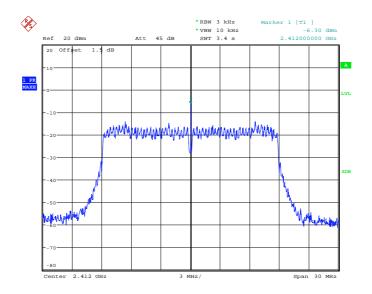
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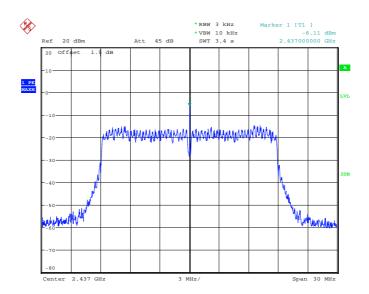
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode: 802.11n(HT20) Test channel: Middle





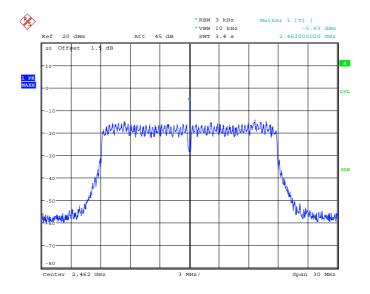
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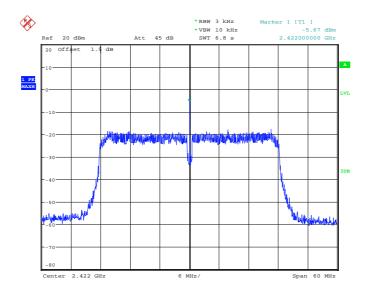
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Test mode: 802.11n(HT20) Test channel: Highest



Test mode: 802.11n(HT40) Test channel: Lowest



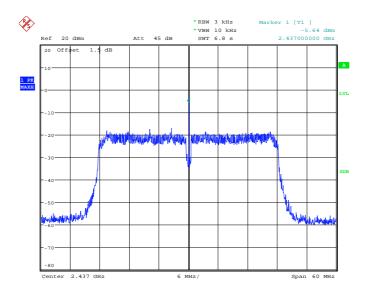
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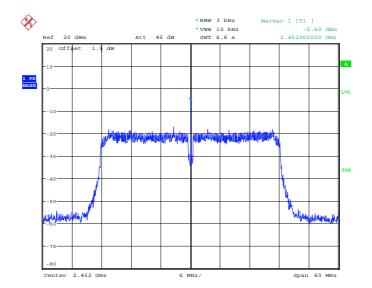
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode: 802.11n(HT40) Test channel: Highest



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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
Exploratory Test Made:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode: Final Test Mode:	Transmitting with all kind of modulations, data rates Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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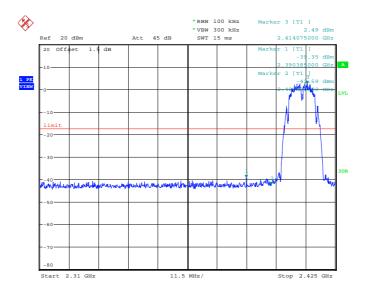


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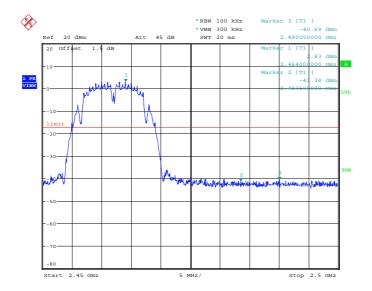
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest







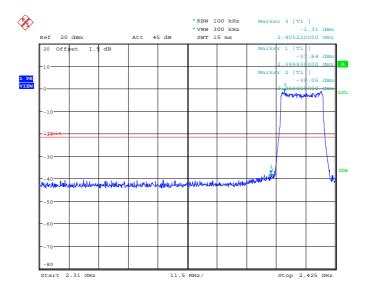
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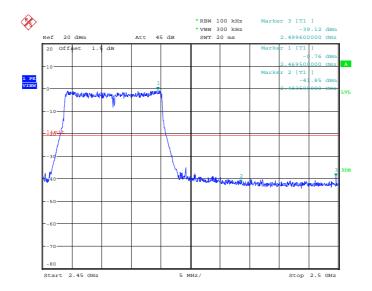
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Test mode: 802.11g Test channel: Lowest







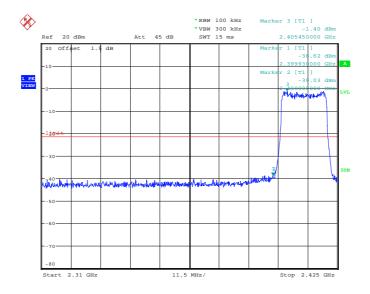
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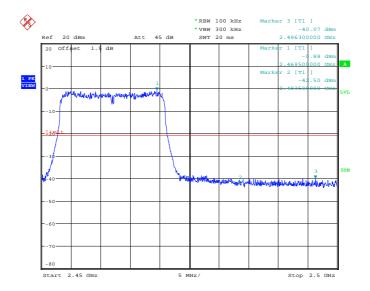
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Test mode: 802.11n(HT20) Test channel: Lowest







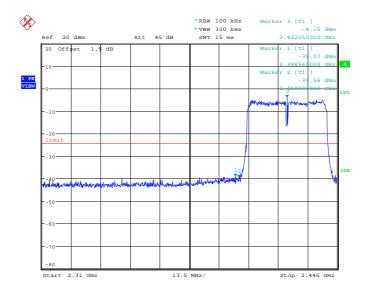
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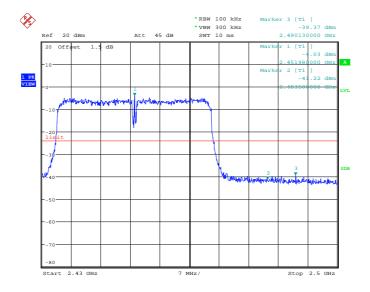
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Test mode: 802.11n(HT40) Test channel: Lowest







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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2009
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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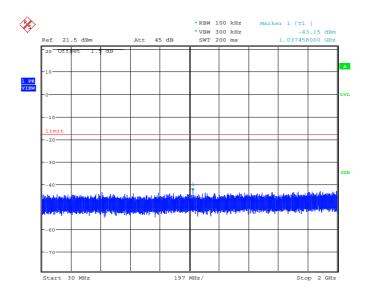


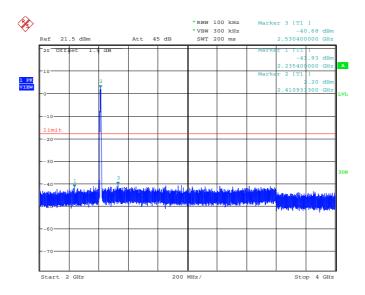
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



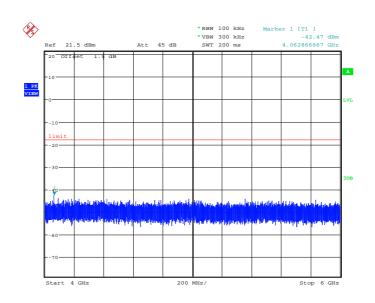


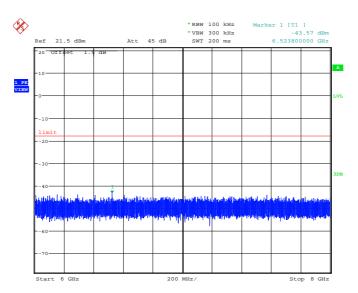
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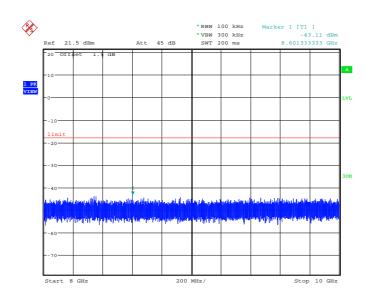


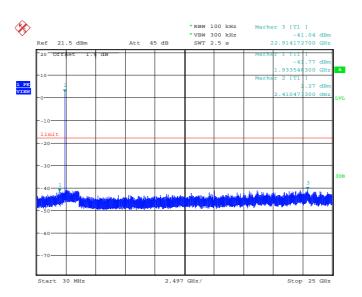
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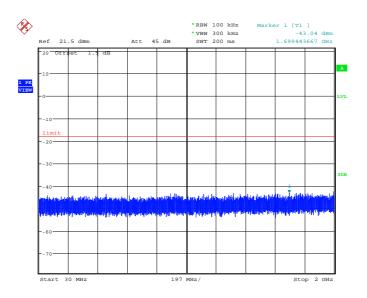
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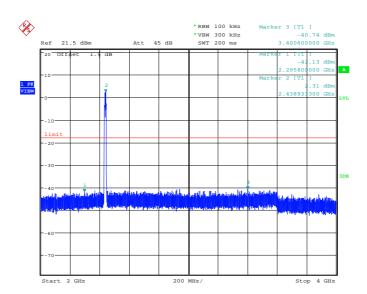


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Test mode: 802.11b Test channel: Middle



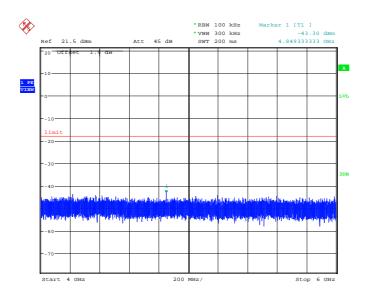


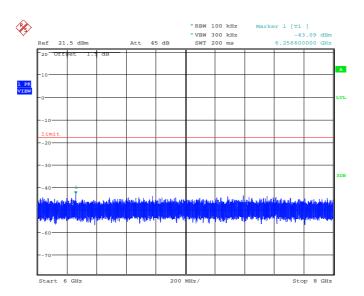
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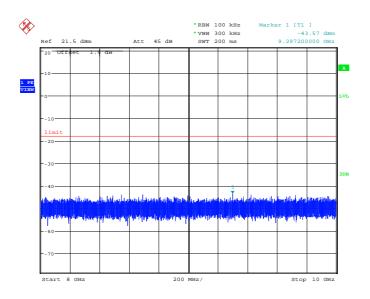


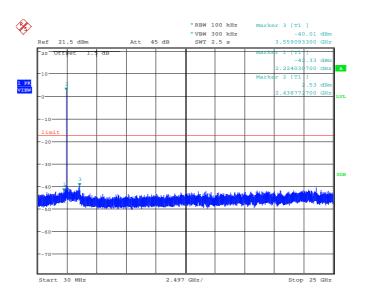
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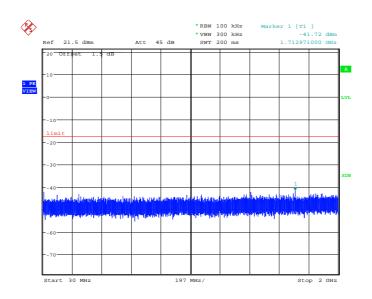
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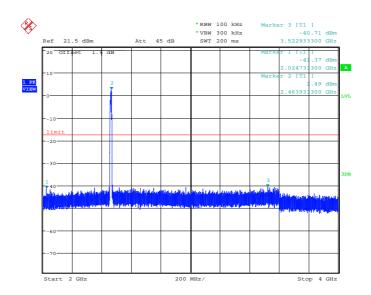


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Test mode: 802.11b Test channel: Highest



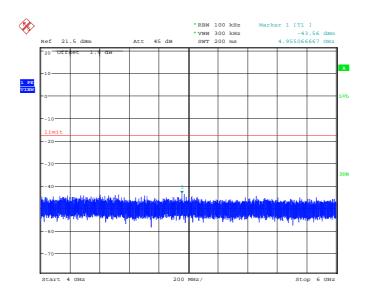


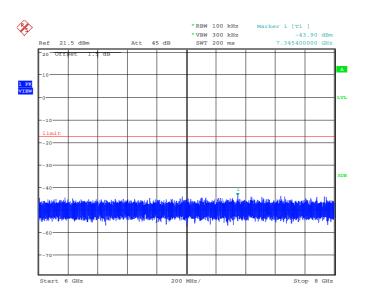
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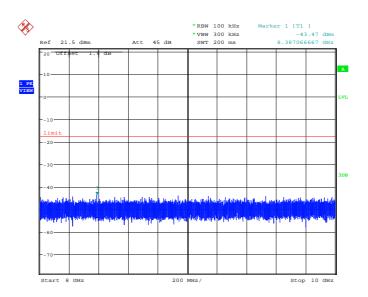


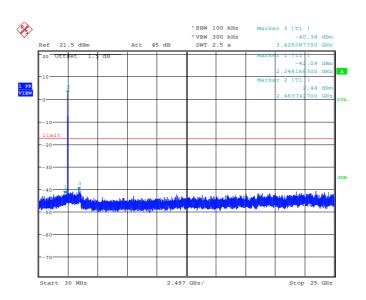
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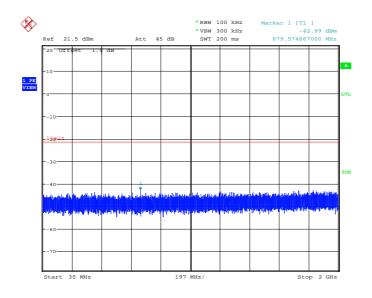
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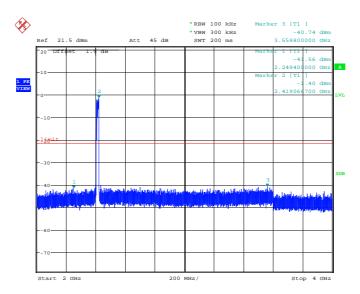


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Test mode: 802.11g Test channel: Lowest



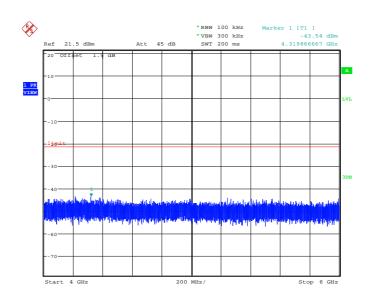


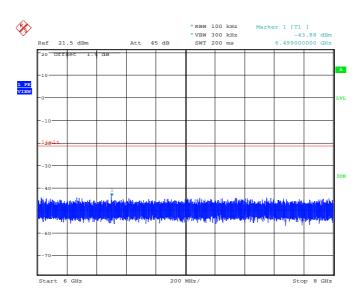
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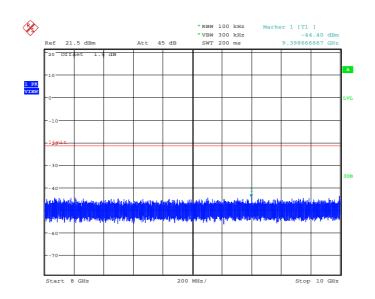


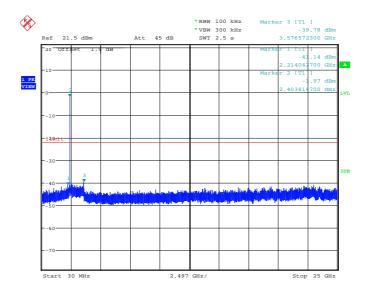
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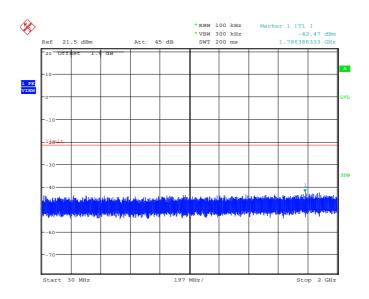
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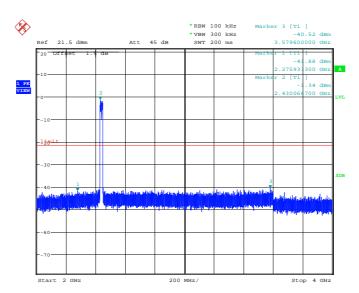


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Test mode: 802.11g Test channel: Middle



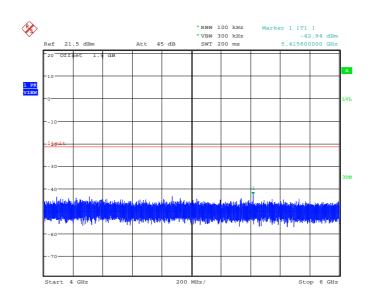


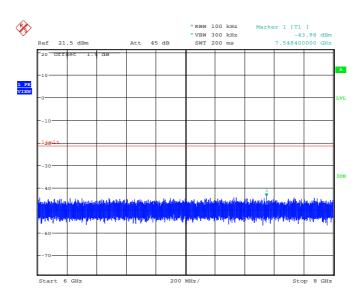
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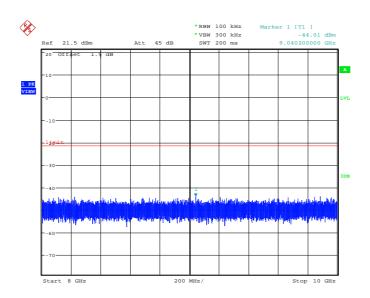


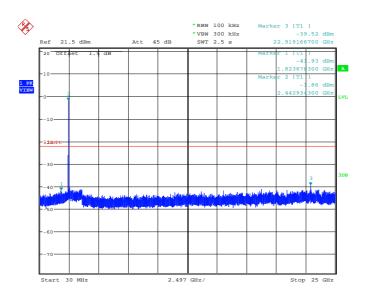
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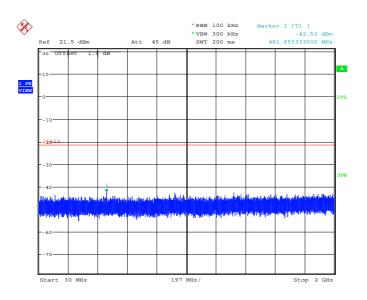
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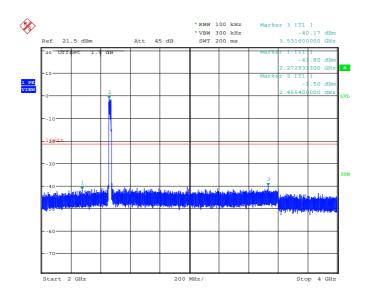


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Test mode: 802.11g Test channel: Highest



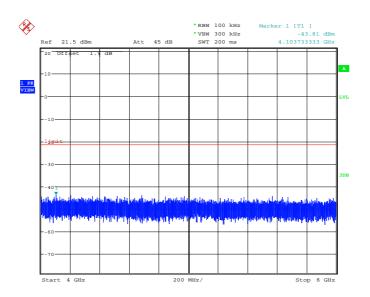


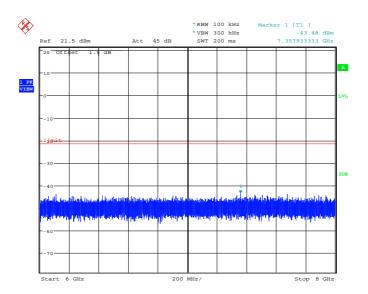
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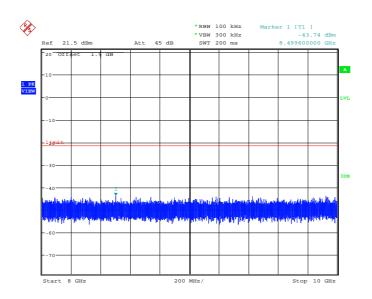


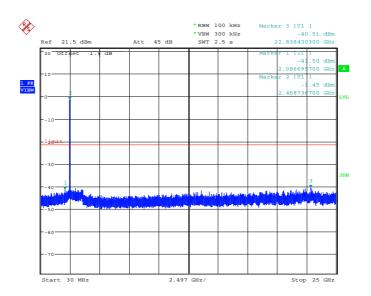
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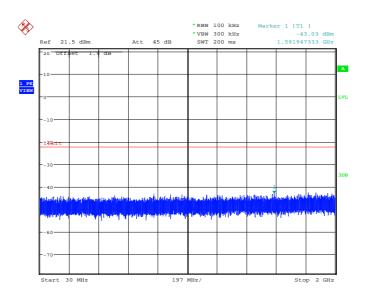
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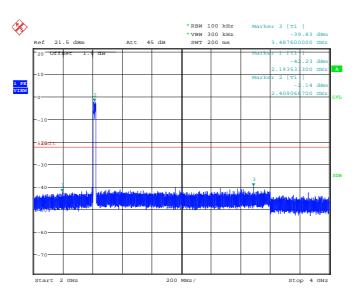


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Test mode: 802.11n(HT20) Test channel: Lowest



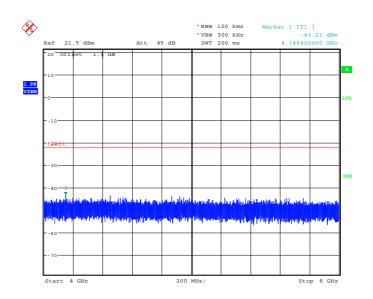


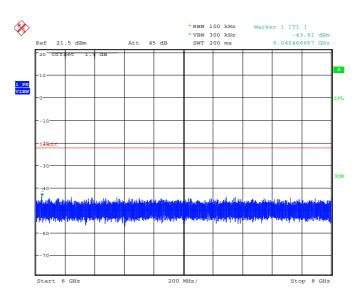
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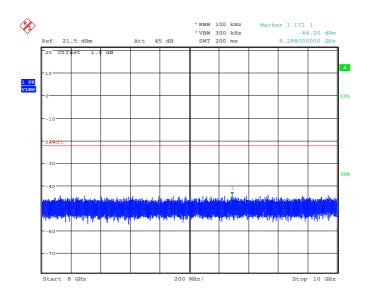


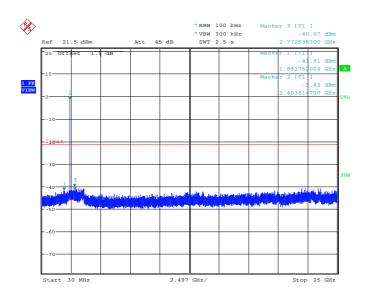
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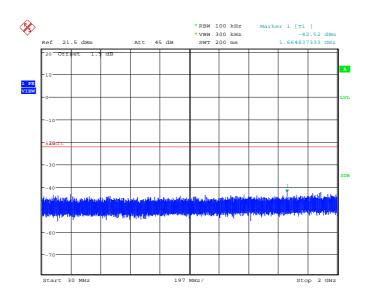
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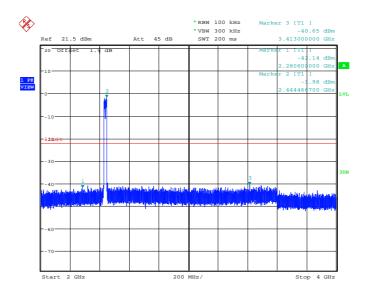


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Test mode: 802.11n(HT20) Test channel: Middle





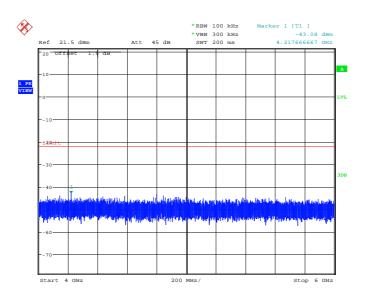


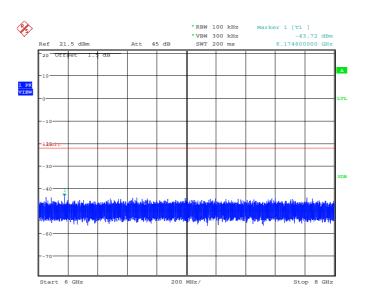
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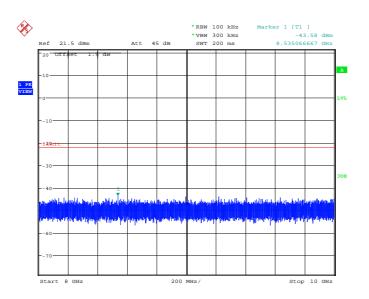


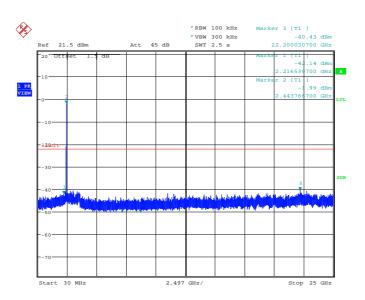
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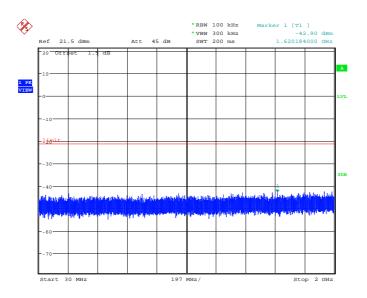
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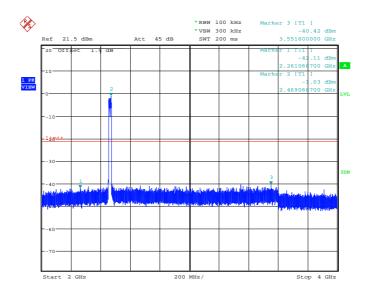


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Test mode: 802.11n(HT20) Test channel: Highest



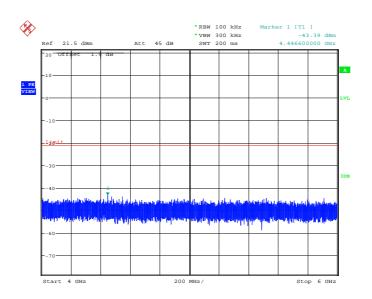


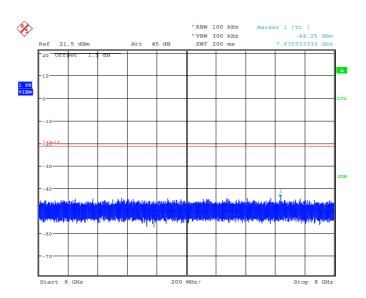
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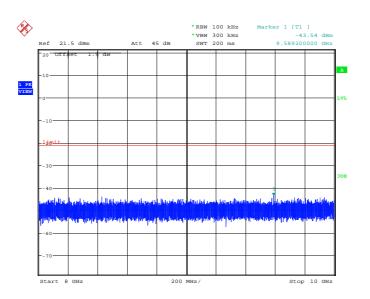


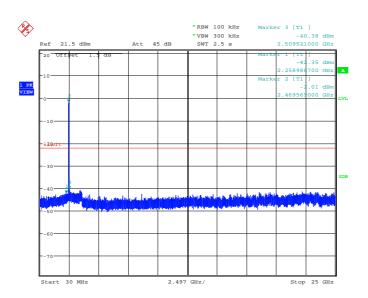
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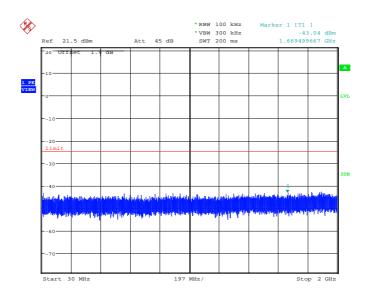
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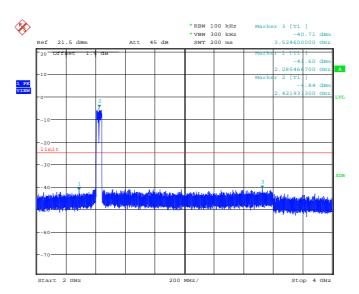


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Test mode: 802.11n(HT40) Test channel: Lowest



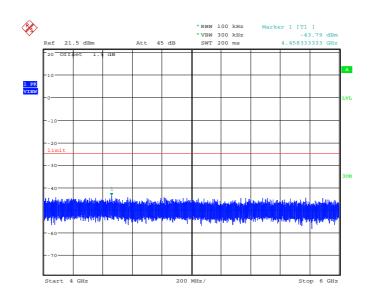


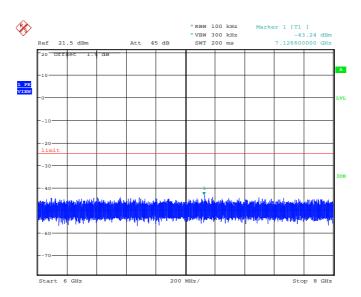
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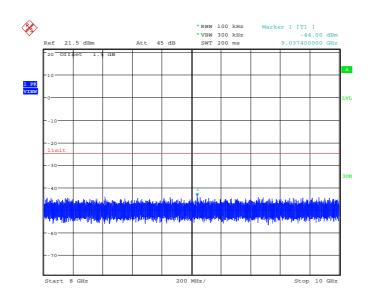


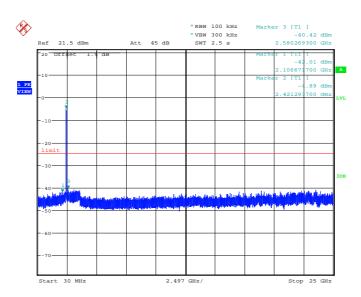
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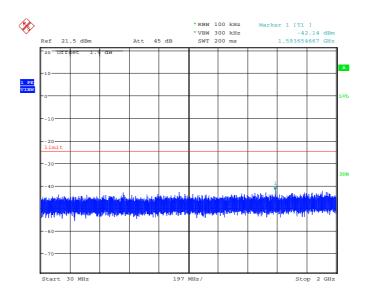
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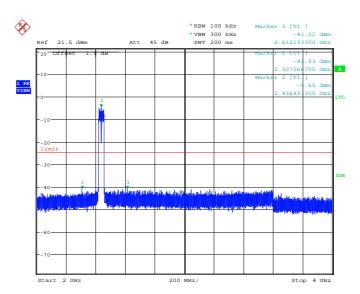


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Test mode: 802.11n(HT40) Test channel: Middle



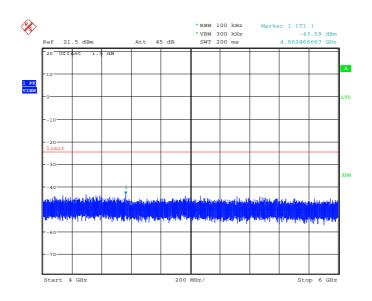


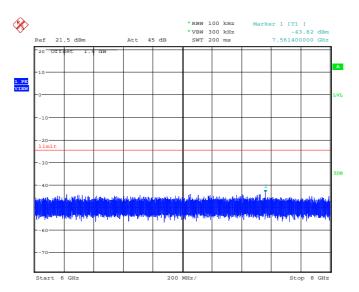
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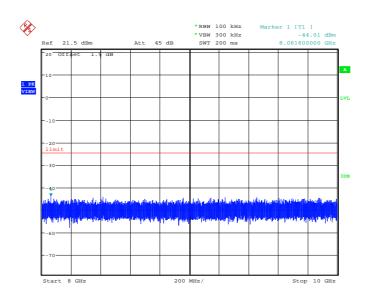


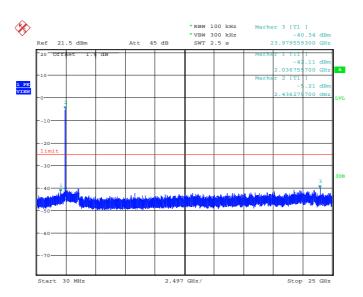




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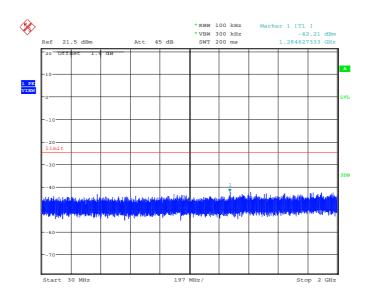
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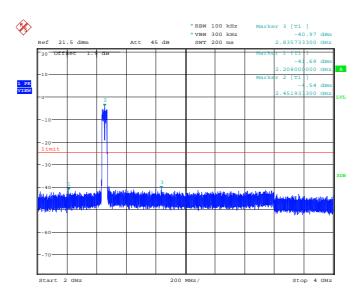


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Test mode: 802.11n(HT40) Test channel: Highest



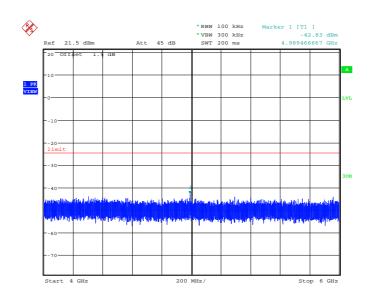


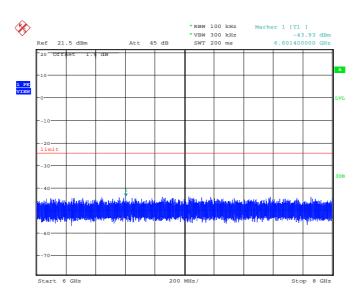
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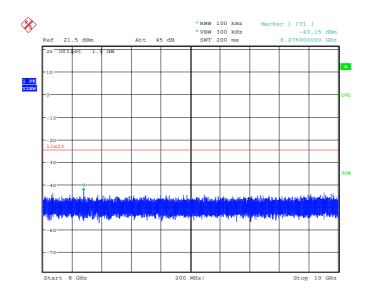


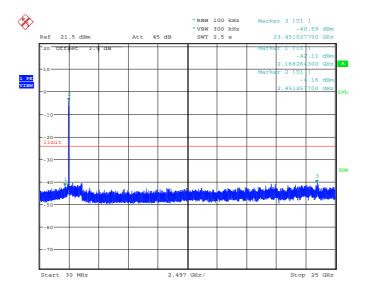
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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.20)5		
Test Method:	ANSI C63.10 2009				
Test Site:	Measurement Distance:	3m (Semi-Anechoi	c Chamber)		
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above 1G112	Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen t distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	applicable to the e	therwise specified, above the maximus equipment under te liated by the device	um permitted st. This peak	average emi	ssion limit

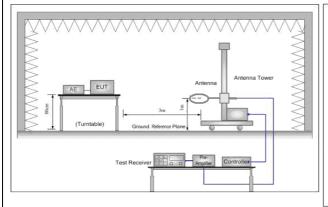
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Test Setup:



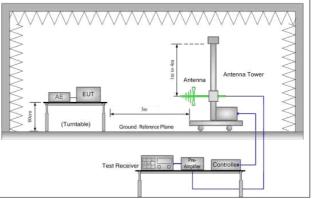


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

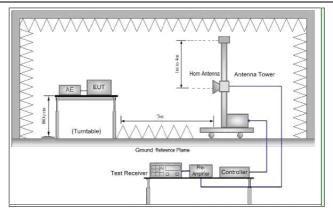


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average



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	<u> </u>					
	method as specified and then reported in a data sheet.					
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.					
	i. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test Mode:	ransmitting with all kind of modulations, data rates.					
	Transmitting mode.					
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).					
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

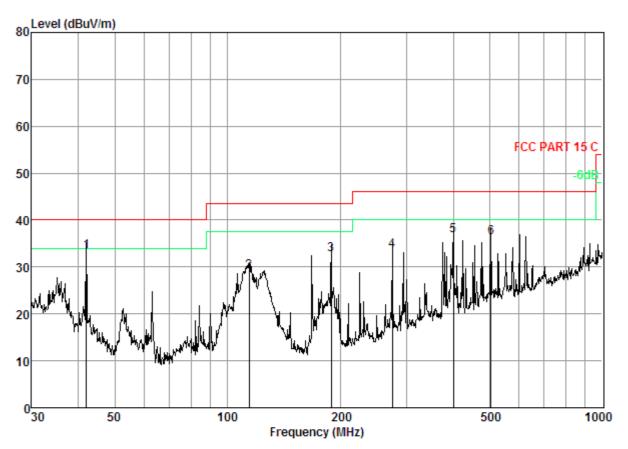


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6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



Condition: FCC PART 15 C 3m 3142C VERTICAL

Job No. : 5002CR Test Mode: TX

Freq		Antenna Factor	Preamp Factor	Read Level		Limit Line	Over Limit
MHz	dB	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 42.01 2 114.11 3 189.07 4 275.16 5 400.43 6 504.71	1.54 2.09 2.60 3.29	8. 45 10. 08	25. 76 25. 42 25. 44 24. 52 25. 72 26. 23	45.84 44.34 46.01 42.64 42.66 41.05	33. 18 28. 91 32. 74 33. 43 36. 63 36. 32	43.50 43.50 46.00 46.00	-6.82 -14.59 -10.76 -12.57 -9.37 -9.68

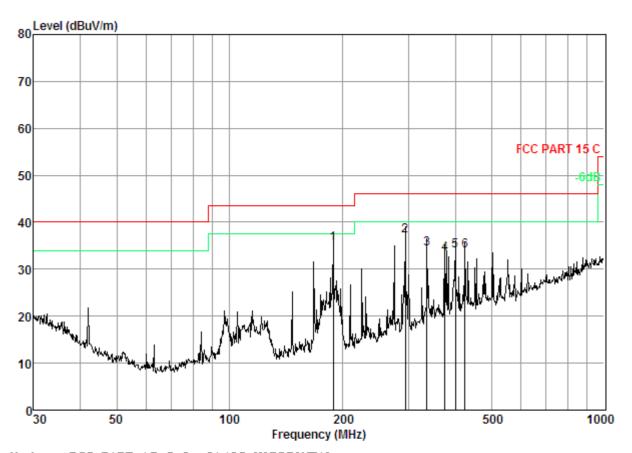
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Condition: FCC PART 15 C 3m 3142C HORIZONTAL

Job No. : 5002CR Test Mode: TX

	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	₫B	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	dBuV/m	dB
1 2 3 4 5	189.07 294.11 336.04 375.94 400.43 425.03	2. 09 2. 71 2. 95 3. 14 3. 29 3. 36	10.08 13.39 15.11 15.92 16.40 16.30	25. 44 25. 00 24. 45 25. 58 25. 72 25. 54	48. 58 45. 92 40. 82 39. 75 40. 05 39. 78	35. 31 37. 02 34. 43 33. 23 34. 02 33. 90	46.00 46.00 46.00	-8.19 -8.98 -11.57 -12.77 -11.98 -12.10

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6.8.2 Transmitter emission above 1GHz

Test mode:	802	.11b	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3765.116	6.82	33.12	38.86	46.89	47.97	74.00	-26.03	Vertical
4824.000	6.46	34.72	39.24	48.53	50.47	74.00	-23.53	Vertical
5999.562	8.08	36.30	39.18	47.75	52.95	74.00	-21.05	Vertical
7236.000	8.96	35.60	39.06	47.72	53.22	74.00	-20.78	Vertical
9648.000	9.97	37.45	37.91	42.37	51.88	74.00	-22.12	Vertical
11622.330	10.44	38.32	38.52	43.53	53.77	74.00	-20.23	Vertical
3631.354	6.89	33.02	38.80	48.58	49.69	74.00	-24.31	Horizontal
4824.000	6.46	34.72	39.24	48.85	50.79	74.00	-23.21	Horizontal
5939.103	7.99	36.18	39.19	47.34	52.32	74.00	-21.68	Horizontal
7236.000	8.96	35.60	39.06	46.50	52.00	74.00	-22.00	Horizontal
9648.000	9.97	37.45	37.91	42.10	51.61	74.00	-22.39	Horizontal
11757.650	10.50	38.46	38.59	42.28	52.65	74.00	-21.35	Horizontal

Test mode:	802	.11b	Test ch	annel:	Middle	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3716.403	6.84	33.09	38.84	48.81	49.90	74.00	-24.10	Vertical
4874.000	6.59	34.78	39.26	50.08	52.19	74.00	-21.81	Vertical
5999.562	8.08	36.30	39.18	48.32	53.52	74.00	-20.48	Vertical
7311.000	9.08	35.50	39.06	47.72	53.24	74.00	-20.76	Vertical
9748.000	9.90	37.82	37.84	42.88	52.76	74.00	-21.24	Vertical
11672.890	10.47	38.37	38.55	43.07	53.36	74.00	-20.64	Vertical
3732.570	6.84	33.10	38.84	46.91	48.01	74.00	-25.99	Horizontal
4874.000	6.59	34.78	39.26	48.55	50.66	74.00	-23.34	Horizontal
6034.386	8.07	36.26	39.18	47.83	52.98	74.00	-21.02	Horizontal
7311.000	9.08	35.50	39.06	46.64	52.16	74.00	-21.84	Horizontal
9748.000	9.90	37.82	37.84	41.48	51.36	74.00	-22.64	Horizontal
11521.870	10.40	38.24	38.48	42.55	52.71	74.00	-21.29	Horizontal



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Test mode:	802	.11b	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3743.387	6.83	33.11	38.85	48.15	49.24	74.00	-24.76	Vertical
4924.000	6.72	34.84	39.28	49.00	51.28	74.00	-22.72	Vertical
5982.226	8.05	36.27	39.19	47.37	52.50	74.00	-21.50	Vertical
7386.000	9.20	35.42	39.05	47.39	52.96	74.00	-21.04	Vertical
9848.000	9.83	38.18	37.77	41.75	51.99	74.00	-22.01	Vertical
11488.580	10.39	38.22	38.46	43.23	53.38	74.00	-20.62	Vertical
3641.878	6.89	33.03	38.80	48.15	49.27	74.00	-24.73	Horizontal
4924.000	6.72	34.84	39.28	50.16	52.44	74.00	-21.56	Horizontal
5982.226	8.05	36.27	39.19	48.37	53.50	74.00	-20.50	Horizontal
7386.000	9.20	35.42	39.05	46.77	52.34	74.00	-21.66	Horizontal
9848.000	9.83	38.18	37.77	42.19	52.43	74.00	-21.57	Horizontal
11422.280	10.37	38.17	38.43	43.58	53.69	74.00	-20.31	Horizontal

Test mode:	80	02.11g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3548.251	6.94	32.94	38.76	47.82	48.94	74.00	-25.06	Vertical
4824.000	6.46	34.72	39.24	48.87	50.81	74.00	-23.19	Vertical
5999.562	8.08	36.30	39.18	48.13	53.33	74.00	-20.67	Vertical
7236.000	8.96	35.60	39.06	44.69	50.19	74.00	-23.81	Vertical
9648.000	9.97	37.45	37.91	42.82	52.33	74.00	-21.67	Vertical
11488.580	10.39	38.22	38.46	43.00	53.15	74.00	-20.85	Vertical
3652.432	6.88	33.04	38.81	48.01	49.12	74.00	-24.88	Horizontal
4824.000	6.46	34.72	39.24	49.65	51.59	74.00	-22.41	Horizontal
5982.226	8.05	36.27	39.19	48.42	53.55	74.00	-20.45	Horizontal
7236.000	8.96	35.60	39.06	47.70	53.20	74.00	-20.80	Horizontal
9648.000	9.97	37.45	37.91	42.71	52.22	74.00	-21.78	Horizontal
11389.270	10.37	38.15	38.41	43.36	53.47	74.00	-20.53	Horizontal



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Test mode:	802	.11g	Test ch	annel:	Middle	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3652.432	6.88	33.04	38.81	47.71	48.82	74.00	-25.18	Vertical
4874.000	6.57	34.77	39.26	48.43	50.51	74.00	-23.49	Vertical
6069.413	8.06	36.22	39.18	46.93	52.03	74.00	-21.97	Vertical
7311.000	9.06	35.52	39.06	47.70	53.22	74.00	-20.78	Vertical
9748.000	9.91	37.76	37.85	43.33	53.15	74.00	-20.85	Vertical
11422.280	10.37	38.17	38.43	42.24	52.35	74.00	-21.65	Vertical
3631.354	6.89	33.02	38.80	48.58	49.69	74.00	-24.31	Horizontal
4874.000	6.57	34.77	39.26	48.75	50.83	74.00	-23.17	Horizontal
6016.949	8.08	36.28	39.18	47.82	53.00	74.00	-21.00	Horizontal
7311.000	9.06	35.52	39.06	47.66	53.18	74.00	-20.82	Horizontal
9748.000	9.91	37.76	37.85	42.29	52.11	74.00	-21.89	Horizontal
11356.360	10.36	38.14	38.40	42.97	53.07	74.00	-20.93	Horizontal

Test mode:	802	.11g	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3781.495	6.81	33.14	38.86	49.76	50.85	74.00	-23.15	Vertical
4924.000	6.68	34.82	39.28	50.78	53.00	74.00	-21.00	Vertical
5990.888	8.07	36.28	39.18	48.64	53.81	74.00	-20.19	Vertical
7386.000	9.16	35.44	39.05	47.69	53.24	74.00	-20.76	Vertical
9848.000	9.85	38.06	37.79	42.64	52.76	74.00	-21.24	Vertical
11128.630	10.31	38.11	38.29	43.50	53.63	74.00	-20.37	Vertical
3589.562	6.92	32.99	38.78	48.31	49.44	74.00	-24.56	Horizontal
4924.000	6.68	34.82	39.28	48.50	50.72	74.00	-23.28	Horizontal
5964.939	8.03	36.23	39.19	47.81	52.88	74.00	-21.12	Horizontal
7386.000	9.16	35.44	39.05	47.21	52.76	74.00	-21.24	Horizontal
9848.000	9.85	38.06	37.79	42.44	52.56	74.00	-21.44	Horizontal
11656.010	10.46	38.36	38.54	43.38	53.66	74.00	-20.34	Horizontal



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Test mode:	802	.11n(HT20)	Test ch	est channel: Lowest		Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3663.017	6.87	33.05	38.81	49.13	50.24	74.00	-23.76	Vertical
4824.000	6.46	34.72	39.24	50.16	52.10	74.00	-21.90	Vertical
5973.576	8.04	36.25	39.19	48.12	53.22	74.00	-20.78	Vertical
7236.000	8.96	35.60	39.06	47.70	53.20	74.00	-20.80	Vertical
9648.000	9.97	37.45	37.91	42.82	52.33	74.00	-21.67	Vertical
11389.270	10.37	38.15	38.41	43.36	53.47	74.00	-20.53	Vertical
3599.965	6.91	33.00	38.79	48.55	49.67	74.00	-24.33	Horizontal
4824.000	6.46	34.72	39.24	50.50	52.44	74.00	-21.56	Horizontal
5947.702	8.00	36.20	39.19	48.44	53.45	74.00	-20.55	Horizontal
7236.000	8.96	35.60	39.06	48.34	53.84	74.00	-20.16	Horizontal
9648.000	9.97	37.45	37.91	43.29	52.80	74.00	-21.20	Horizontal
11128.630	10.31	38.11	38.29	43.65	53.78	74.00	-20.22	Horizontal

Test mode:	802	.11n(HT20)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3903.804	6.74	33.33	38.91	48.25	49.41	74.00	-24.59	Vertical
4874.000	6.57	34.77	39.26	49.67	51.75	74.00	-22.25	Vertical
5921.940	7.96	36.15	39.19	47.99	52.91	74.00	-21.09	Vertical
7311.000	9.06	35.52	39.06	47.93	53.45	74.00	-20.55	Vertical
9748.000	9.91	37.76	37.85	42.51	52.33	74.00	-21.67	Vertical
11389.270	10.37	38.15	38.41	42.16	52.27	74.00	-21.73	Vertical
3743.387	6.83	33.11	38.85	48.15	49.24	74.00	-24.76	Horizontal
4874.000	6.57	34.77	39.26	49.20	51.28	74.00	-22.72	Horizontal
5982.226	8.05	36.27	39.19	47.37	52.50	74.00	-21.50	Horizontal
7311.000	9.06	35.52	39.06	47.44	52.96	74.00	-21.04	Horizontal
9748.000	9.91	37.76	37.85	42.17	51.99	74.00	-22.01	Horizontal
11488.580	10.39	38.22	38.46	43.23	53.38	74.00	-20.62	Horizontal



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Test mode:	802	.11n(HT20)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3652.432	6.88	33.04	38.81	47.71	48.82	74.00	-25.18	Vertical
4924.000	6.68	34.82	39.28	48.25	50.47	74.00	-23.53	Vertical
5939.103	7.99	36.18	39.19	49.34	54.32	74.00	-19.68	Vertical
7386.000	9.16	35.44	39.05	47.67	53.22	74.00	-20.78	Vertical
9848.000	9.85	38.06	37.79	41.44	51.56	74.00	-22.44	Vertical
10873.950	10.21	37.99	38.16	42.58	52.62	74.00	-21.38	Vertical
3892.524	6.75	33.31	38.91	47.86	49.01	74.00	-24.99	Horizontal
4924.000	6.68	34.82	39.28	48.61	50.83	74.00	-23.17	Horizontal
5930.516	7.97	36.17	39.19	47.61	52.56	74.00	-21.44	Horizontal
7386.000	9.16	35.44	39.05	47.63	53.18	74.00	-20.82	Horizontal
9848.000	9.85	38.06	37.79	41.99	52.11	74.00	-21.89	Horizontal
11356.360	10.36	38.14	38.40	42.97	53.07	74.00	-20.93	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3781.495	6.81	33.14	38.86	49.76	50.85	74.00	-23.15	Vertical
4844.000	6.51	34.74	39.25	51.00	53.00	74.00	-21.00	Vertical
5828.433	7.81	35.97	39.20	48.21	52.79	74.00	-21.21	Vertical
7266.000	9.00	35.57	39.06	47.73	53.24	74.00	-20.76	Vertical
9688.000	9.94	37.57	37.88	43.13	52.76	74.00	-21.24	Vertical
11356.360	10.36	38.14	38.40	43.29	53.39	74.00	-20.61	Vertical
3770.567	6.81	33.13	38.86	47.64	48.72	74.00	-25.28	Horizontal
4844.000	6.51	34.74	39.25	48.67	50.67	74.00	-23.33	Horizontal
5964.939	8.03	36.23	39.19	47.81	52.88	74.00	-21.12	Horizontal
7266.000	9.00	35.57	39.06	46.65	52.16	74.00	-21.84	Horizontal
9688.000	9.94	37.57	37.88	42.93	52.56	74.00	-21.44	Horizontal
11422.280	10.37	38.17	38.43	42.67	52.78	74.00	-21.22	Horizontal



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Test mode:	802	.11n(HT40)	Test ch	annel:	Middle	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3881.276	6.75	33.29	38.90	48.23	49.37	74.00	-24.63	Vertical
4874.000	6.57	34.77	39.26	50.02	52.10	74.00	-21.90	Vertical
6069.413	8.06	36.22	39.18	47.46	52.56	74.00	-21.44	Vertical
7311.000	9.06	35.52	39.06	46.01	51.53	74.00	-22.47	Vertical
9748.000	9.91	37.76	37.85	42.17	51.99	74.00	-22.01	Vertical
11488.580	10.39	38.22	38.46	43.23	53.38	74.00	-20.62	Vertical
3960.700	6.71	33.43	38.94	49.63	50.83	74.00	-23.17	Horizontal
4874.000	6.57	34.77	39.26	50.36	52.44	74.00	-21.56	Horizontal
5862.263	7.87	36.03	39.20	48.69	53.39	74.00	-20.61	Horizontal
7311.000	9.06	35.52	39.06	48.32	53.84	74.00	-20.16	Horizontal
9748.000	9.91	37.76	37.85	42.98	52.80	74.00	-21.20	Horizontal
11422.280	10.37	38.17	38.43	43.58	53.69	74.00	-20.31	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3781.495	6.81	33.14	38.86	50.81	51.90	74.00	-22.10	Vertical
4904.000	6.64	34.81	39.27	49.57	51.75	74.00	-22.25	Vertical
5939.103	7.99	36.18	39.19	48.24	53.22	74.00	-20.78	Vertical
7356.000	9.12	35.47	39.05	47.91	53.45	74.00	-20.55	Vertical
9808.000	9.88	37.94	37.81	42.32	52.33	74.00	-21.67	Vertical
10842.530	10.19	37.96	38.14	43.48	53.49	74.00	-20.51	Vertical
3663.017	6.87	33.05	38.81	49.13	50.24	74.00	-23.76	Horizontal
4904.000	6.64	34.81	39.27	49.95	52.13	74.00	-21.87	Horizontal
5973.576	8.04	36.25	39.19	47.12	52.22	74.00	-21.78	Horizontal
7356.000	9.12	35.47	39.05	47.66	53.20	74.00	-20.80	Horizontal
9808.000	9.88	37.94	37.81	42.28	52.29	74.00	-21.71	Horizontal
11389.270	10.37	38.15	38.41	43.36	53.47	74.00	-20.53	Horizontal



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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

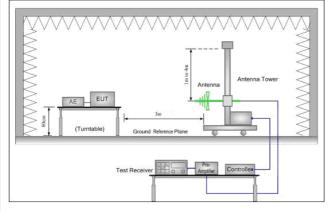


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2009							
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak Value					
	88MHz-216MHz	43.5	Quasi-peak Value					
	216MHz-960MHz	46.0	Quasi-peak Value					
	960MHz-1GHz	54.0	Quasi-peak Value					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					
Test Setup:								



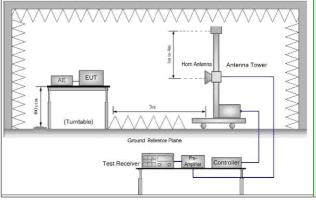


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst		
antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.	Test Procedure:	the ground at a 3 meter semi-anechoic camber. The table was rotated
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.		antenna, which was mounted on the top of a variable-height antenna
and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the
Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to
frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		
h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		g. Test the EUT in the lowest channel , the Highest channel
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		for Transmitting mode, And found the X axis positioning which it is
Transmitting mode Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		' '
Final Test Mode: Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Refer to section 5.10 for details		Transmitting mode
Instruments Used: Refer to section 5.10 for details	Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
Test Results: Pass		Refer to section 5.10 for details
	Test Results:	Pass

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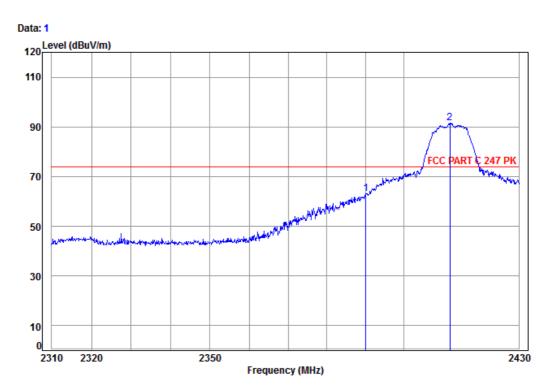


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Test plot as follows:

Worse case mode: 802.11b Test channel: Lowest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge B

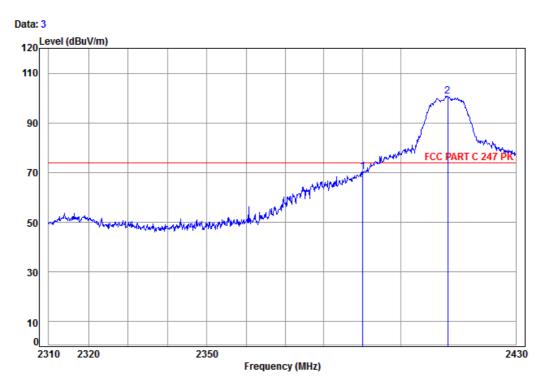
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 4.90 2390.00 32.35 38.46 64.32 63.11 74.00 -10.89 2 pp 2411.98 4.93 32.41 38.46 92.71 91.59 74.00 17.59



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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge B

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 32.35 38.46 71.55 70.34 74.00 -3.66 2390.00 2 pp 2412.10 4.93 32.41 38.46 101.88 100.76 74.00 26.76

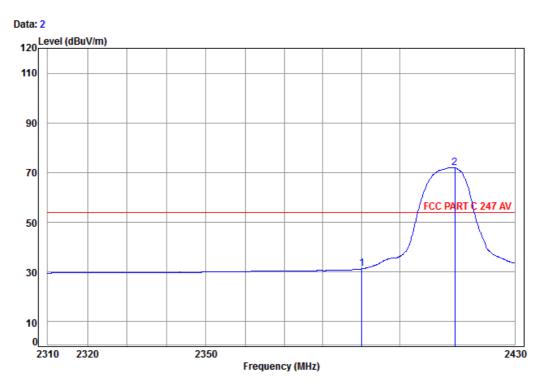




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Worse case mode: 802.11b Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge B

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 32.35 38.46 32.47 31.26 54.00 -22.74 2390.00 1 2 pp 2414.30 4.93 32.42 38.46 73.08 71.97 54.00 17.97

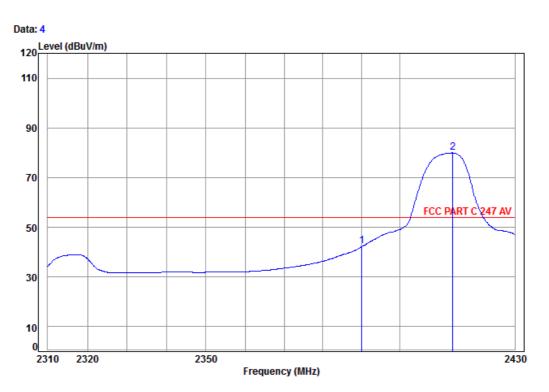
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Worse case mode: 802.11b Test channel: Lowest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge B

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 43.66 42.45 54.00 -11.55 2 pp 2413.69 4.93 32.41 38.46 81.11 79.99 54.00 25.99

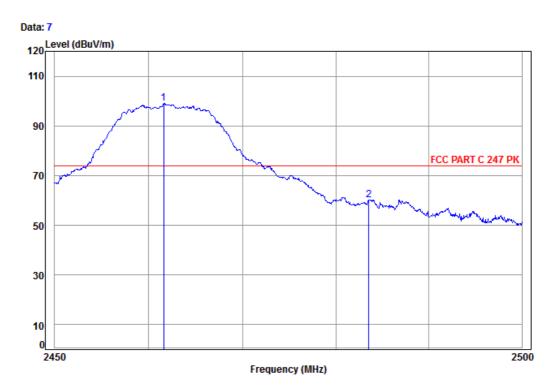
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 2461.58 5.00 32.43 38.46 100.01 98.98 74.00 24.98 2483.50 5.03 32.44 38.47 61.28 60.28 74.00 -13.72

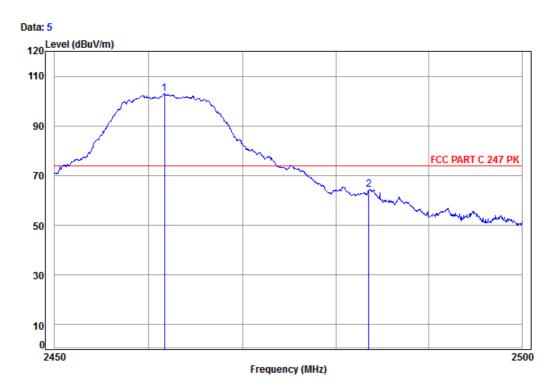
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.00 32.43 38.46 104.01 102.98 74.00 28.98 2461.66 2483.50 5.03 32.44 38.47 65.27 64.27 74.00

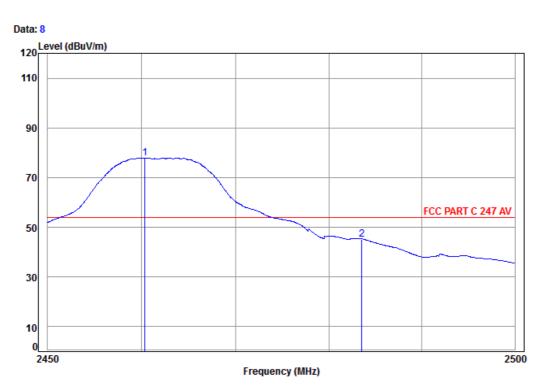
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Worse case mode: 802.11b Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 38.46 78.91 77.88 54.00 23.88 2460.32 5.00 32.43 2483.50 5.03 32.44 38.47 46.28 45.28 54.00 -8.72

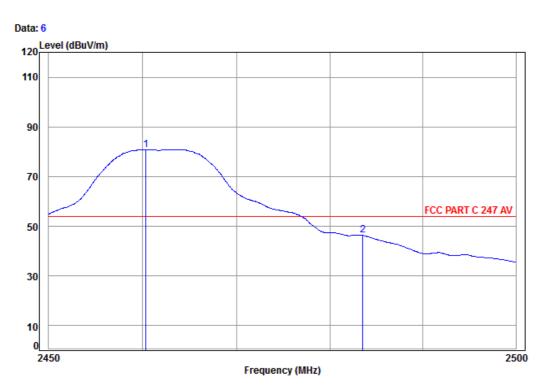
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Worse case mode: 802.11b Test channel: Highest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 38.46 81.91 80.88 54.00 26.88 2460.32 5.00 32.43 5.03 32.44 38.47 47.38 46.38 54.00 -7.62 2483.50

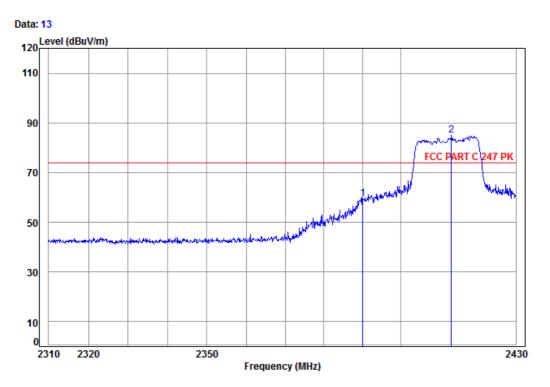
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 60.74 59.53 74.00 -14.47 2 pp 2413.08 4.93 32.41 38.46 86.00 84.88 74.00 10.88

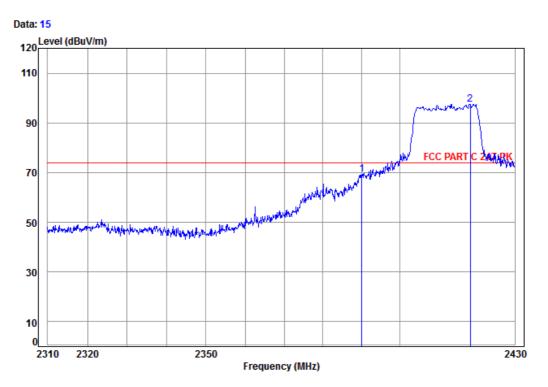
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 2390.00 32.35 38.46 70.69 69.48 74.00 -4.52 2 pp 2418.34 4.94 32.42 38.46 98.70 97.60 74.00 23.60

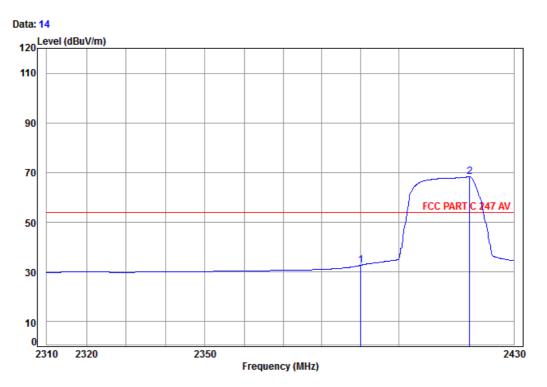
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Report No.: SZEM150800500202

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Worse case mode: 802.11g Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 32.35 38.46 34.05 32.84 54.00 -21.16 2390.00 2 pp 2418.46 4.94 32.42 38.46 69.39 68.29 54.00 14.29

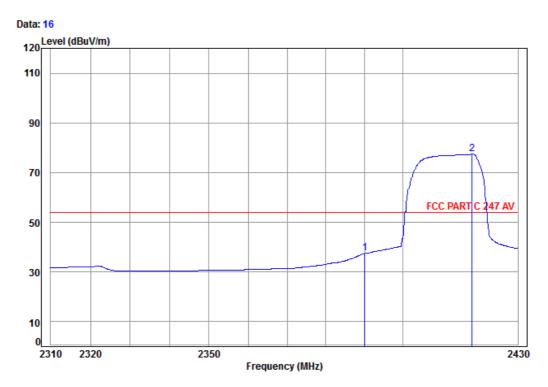
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Worse case mode: 802.11g Test channel: Lowest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 2390.00 32.35 38.46 38.67 37.46 54.00 -16.54 2 pp 2417.97 4.94 32.42 38.46 78.48 77.38 54.00 23.38

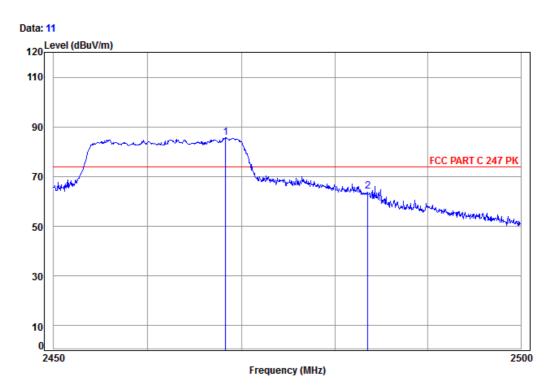




Report No.: SZEM150800500202

Page: 109 of 130

Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.01 32.43 38.46 86.69 85.67 74.00 11.67 2468.28 2483.50 5.03 32.44 38.47 64.99 63.99 74.00 -10.01

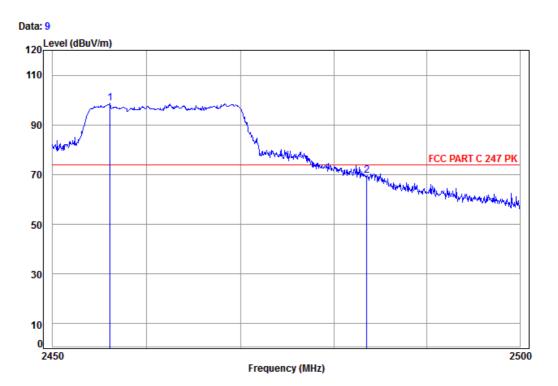
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Report No.: SZEM150800500202

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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge G

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 4.99 38.46 99.67 98.63 74.00 24.63 32.43 2456.10 2483.50 5.03 32.44 38.47 70.78 69.78 74.00 -4.22

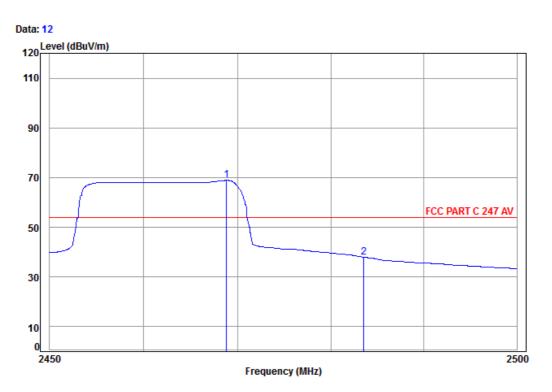
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Report No.: SZEM150800500202

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Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.01 32.43 38.46 69.89 68.87 54.00 14.87 2468.83 2483.50 5.03 32.44 38.47 39.00 38.00 54.00 -16.00

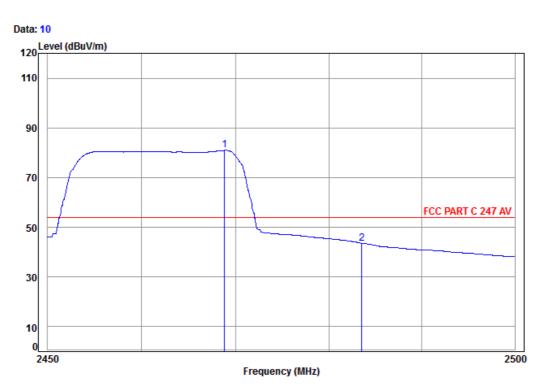
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Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge G

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 38.46 81.97 80.95 54.00 26.95 5.01 32.43 2468.83 2483.50 5.03 32.44 38.47 44.59 43.59 54.00 -10.41

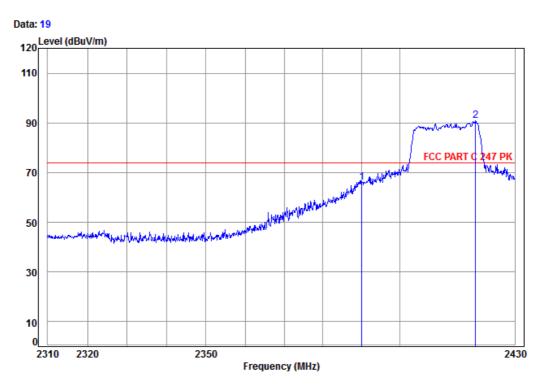
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 67.24 66.03 74.00 -7.97 2 pp 2419.69 4.94 32.42 38.46 91.90 90.80 74.00 16.80

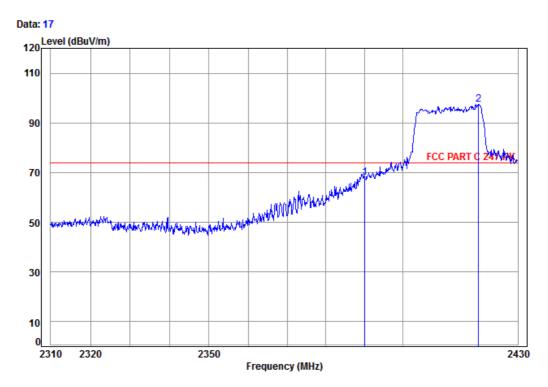
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge N20

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 69.18 67.97 74.00 -6.03 2 pp 2419.69 4.94 32.42 38.46 98.70 97.60 74.00 23.60

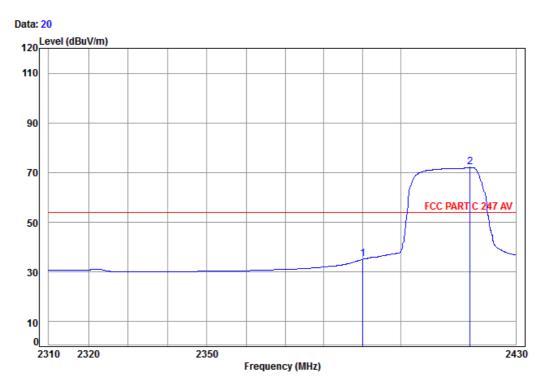
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2412 Band edge N20

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 32.35 38.46 36.49 35.28 54.00 -18.72 4.90 2390.00 2 pp 2417.97 4.94 32.42 38.46 73.23 72.13 54.00 18.13

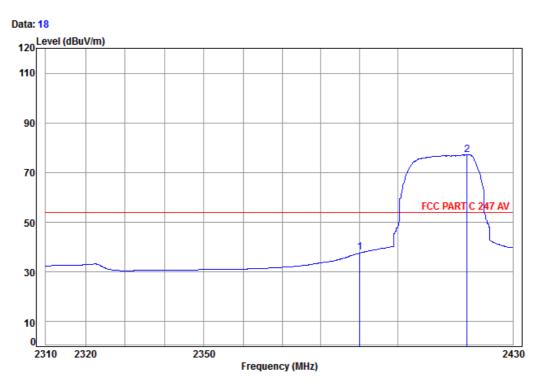
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2412 Band edge N20

Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 32.35 38.46 38.98 37.77 54.00 -16.23 2390.00 4.90 2 pp 2417.97 4.94 32.42 38.46 78.36 77.26 54.00 23.26

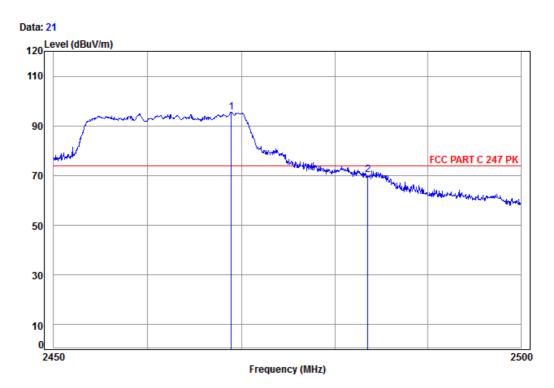
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge N20

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 38.46 96.64 95.62 74.00 21.62 2468.88 5.01 32.43 2483.50 5.03 32.44 38.47 71.29 70.29 74.00 -3.71

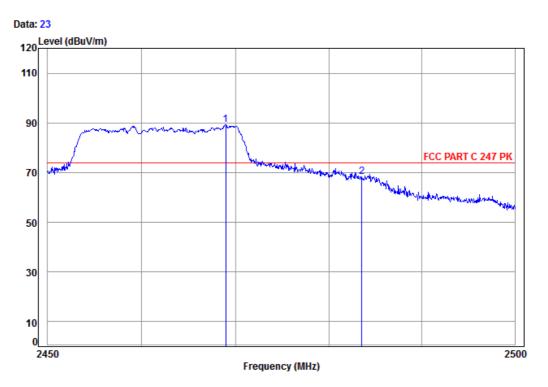
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge N20

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 2468.93 5.01 32.43 38.46 90.23 89.21 74.00 15.21 2483.50 5.03 32.44 38.47 69.40 68.40 74.00 -5.60



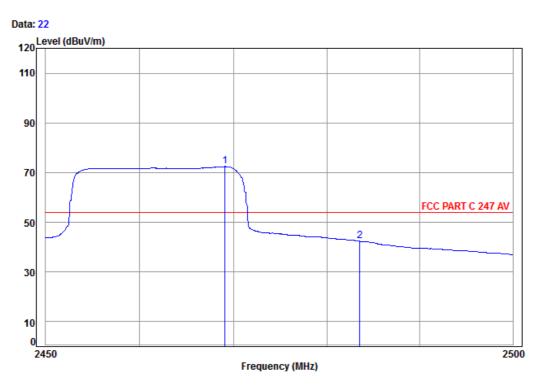
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2462 Band edge N20

Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.01 32.43 38.46 73.49 72.47 54.00 18.47 2469.08 2483.50 5.03 32.44 38.47 43.35 42.35 54.00 -11.65

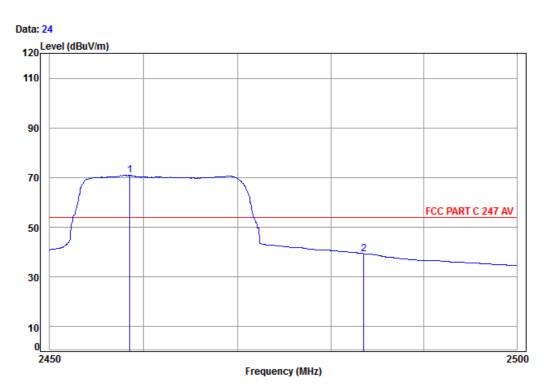
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Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Average | Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2462 Band edge N20

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 4.99 2458.53 32.43 38.46 72.02 70.98 54.00 16.98 1 pp 2483.50 5.03 32.44 38.47 40.36 39.36 54.00 -14.64

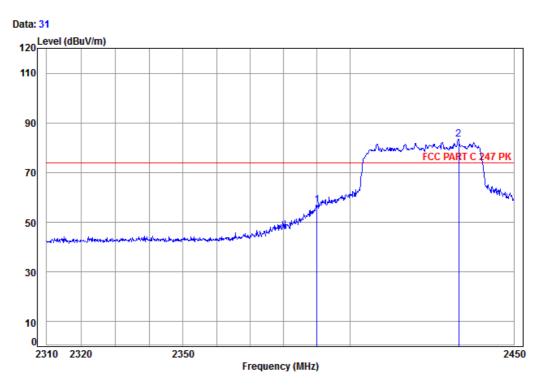
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2422 Band edge N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 2390.00 32.35 38.46 58.19 56.98 74.00 -17.02 2 pp 2433.05 4.96 32.42 38.46 84.45 83.37 74.00 9.37

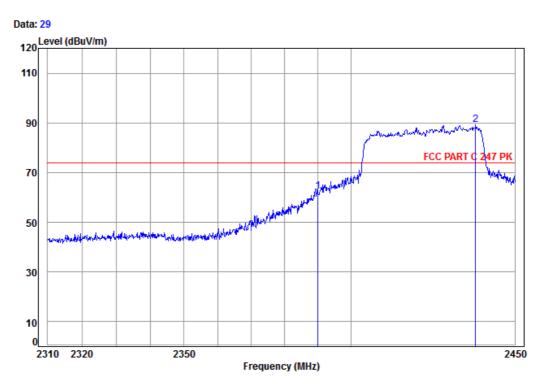
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2422 Band edge N40

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 63.70 62.49 74.00 -11.51 2 pp 2437.92 4.97 32.42 38.46 90.44 89.37 74.00 15.37

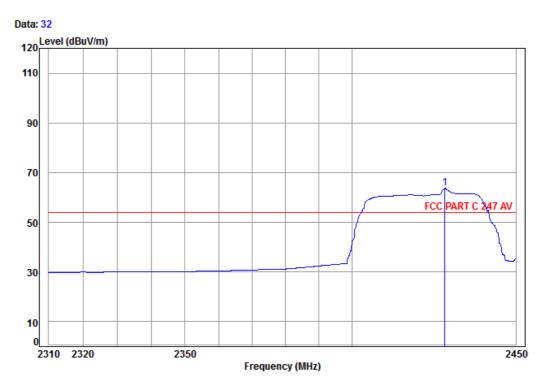
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2422 Band edge N40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1 pp 2428.19 4.95 32.42 38.46 64.89 63.80 54.00 9.80

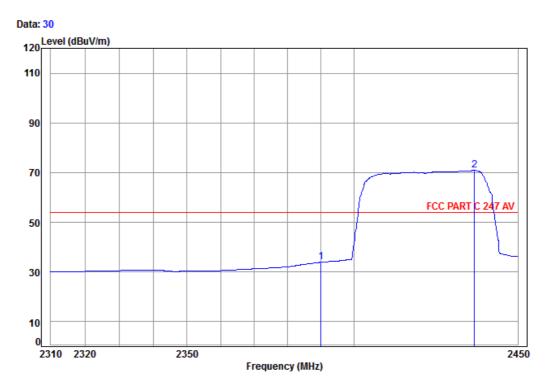
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2422 Band edge N40

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 4.90 32.35 38.46 35.07 33.86 54.00 -20.14 2390.00 2 pp 2436.63 4.96 32.42 38.46 71.89 70.81 54.00 16.81

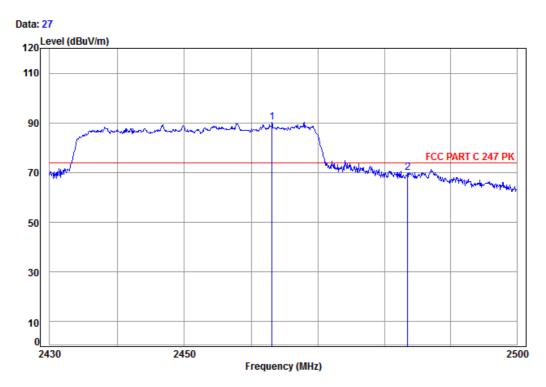
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Vertical



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 5002CR

Mode: : 2452 Band edge N40

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.00 32.43 38.46 91.38 90.35 74.00 16.35 2463.07 2483.50 5.03 32.44 38.47 71.07 70.07 74.00 -3.93

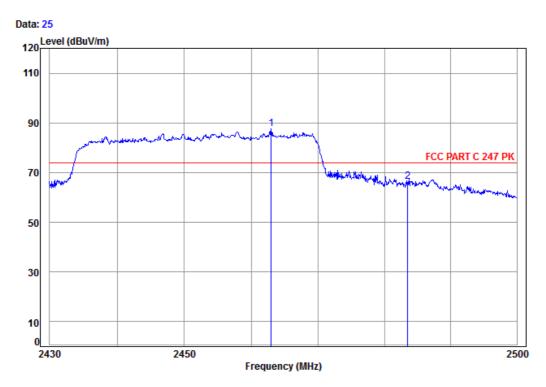
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 5002CR

Mode: : 2452 Band edge N40

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 2462.93 5.00 32.43 38.46 88.51 87.48 74.00 13.48 2483.50 5.03 32.44 38.47 67.38 66.38 74.00 -7.62

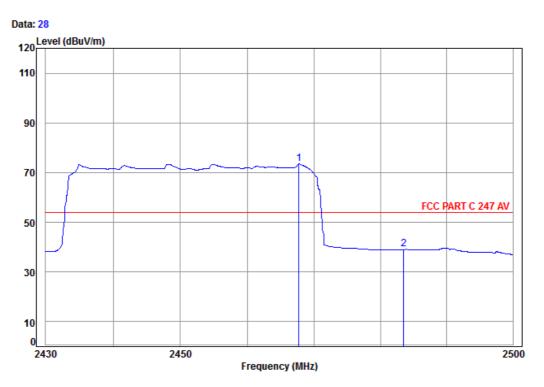
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 5002CR

Mode: : 2452 Band edge N40

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.01 32.43 38.46 74.75 73.73 54.00 19.73 2467.69 2483.50 5.03 32.44 38.47 40.09 39.09 54.00 -14.91

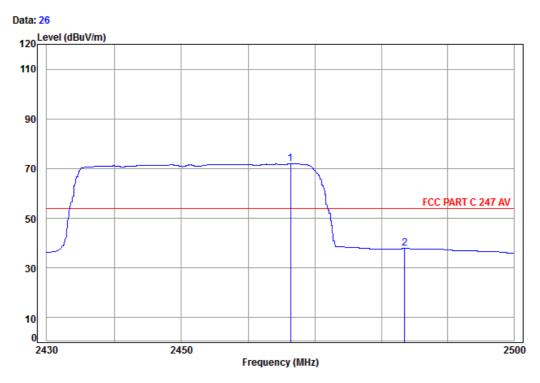
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 5002CR

Mode: : 2452 Band edge N40

Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 5.00 32.43 38.46 72.89 71.86 54.00 17.86 2466.29 2483.50 5.03 32.44 38.47 38.79 37.79 54.00 -16.21

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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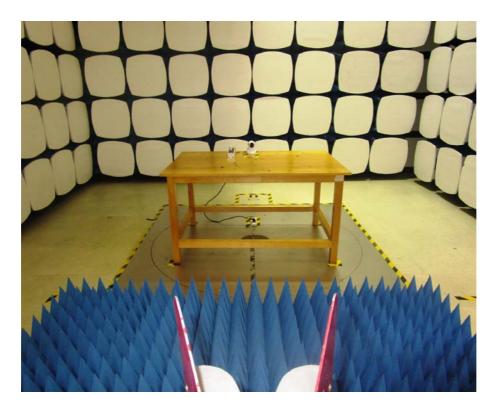
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7 Photographs - EUT Test Setup

Test model No.: 3D01

7.1 Radiated Spurious Emission





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7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1508005002CR.