

Report No.: SZEM150900581302

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FCC REPORT

Application No: SZEM1509005813CR

Applicant: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Manufacturer: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Factory: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Product Name: Wifi Digital Photo Frame

Model No.(EUT): W08D Add Model No.: W10A

FCC ID: 2ABC5-W0805

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

Date of Receipt: 2015-09-22

Date of Test: 2015-09-24 to 2015-10-10

Date of Issue: 2015-10-19

Test Result: PASS *

. * In the configuration tested, the EUT detailed in this repor 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		2015-10-19		Original				

Authorized for issue by:		
Tested By	(Bill Chen) /Project Engineer	2015-10-10 Date
Prepared By	Iris Zhou	2015-10-19
	(Iris Zhou) /Clerk	Date
Checked By	Eric Fu	2015-10-19
	(Eric Fu) /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

Remark:

Model No.: W08D, W10A

Only the model W08D was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models, only different on model No. and color.

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5 General Information

5.1 Client Information

Applicant:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.		
Address of Applicant:	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen		
Manufacturer:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.		
Address of Manufacturer:	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen		
Factory:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.		
Address of Factory:	Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang Street, Bao'an, Shenzhen		

5.2 General Description of EUT

Wifi Digital Photo Frame
W08D
IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
IEEE 802.11n(HT40): 2422MHz to 2452MHz
IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
IEEE 802.11n HT40: 7 Channels
5MHz
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)
fixed production
Wlan test
Integral
1.35dBi
Adapter Model:K-E30502000U1
Input:AC100-240V 50-60Hz 0.35A Max
Output:DC5V 2000mA

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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Char	nnel	Frequency
1	24	112MHz	4	2427MHz	7	244	42MHz	10)	2457MHz
2	24	117MHz	5	2432MHz	8	244	47MHz	11		2462MHz
3	24	122MHz	6	2437MHz	9	24	52MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40))					
Channe	l	Frequ	ency	Channel	Frequen	су	Chan	nel		requency
1 2422MHz		МНz	4	2437MHz		7			2452MHz	
2 24271		ИНz	5	2442MF	łz					
3 24		2432	MHz	6	2447MF	łz				

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):

51 55=11 111 (111 15)1					
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:	1010 mbar			
Test mode:				
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all			
	kinds of data rate.			

5.4 Description of Support Units

The EUT has been tested independent unit.

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.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room 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)

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

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. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)		
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13		
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24	2015-10-24		
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13		
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30		
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30		
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30		
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13		
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13		
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24		
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24	2015-10-24		
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13		



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				ı ago.		
	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2015-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2014-10-24	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13

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RF connected test							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24	2015-10-24	
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24	2015-10-24	
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24	2015-10-24	
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13	
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13	
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13	
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25	
8	Band filter	amideon	82346	SEL0094	2015-05-13	2016-05-13	
9	POWER METER	R&S	NRVS	SEL0144	2014-10-24	2015-10-24	
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25	
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24	2015-10-24	

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6 Test results and Measurement Data

6.1 Antenna Requirement

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

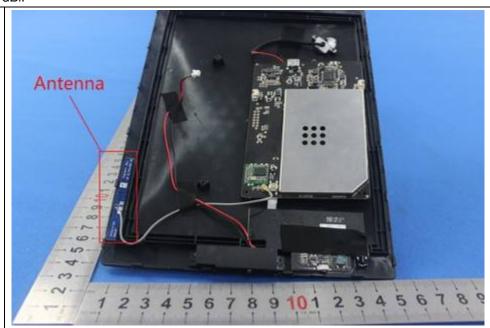
15.203 requirement:

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 1.35dBi.

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6.2 Conducted Emissions

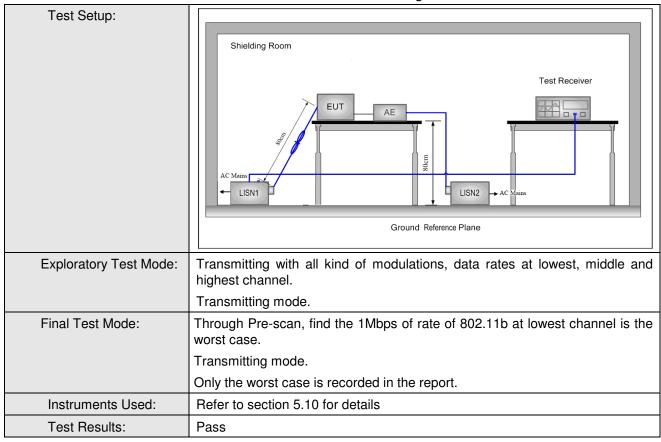
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2009					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Francisco (MIII-)	_ Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithn	n of the frequency.		-		
Test Procedure:	 The mains terminal disturbroom. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS plane in the same way as it multiple socket outlet strip single LISN provided the reason of the terminal placed on the horizontal ground reference plane. All placed on the horizontal ground reference plane. The EUT shall be 0.4 m overtical ground reference preference plane. The LISN unit under test and bonded mounted on top of the ground the EUT and associated en the EUT and associated en the EUT and all of the in ANSI C63.10: 2009 on control of the in ANSI C63.10: 2009 on control of the stability of the interval of t	o AC power source throetwork) which provides bles of all other units of SN 2, which was bonded the LISN 1 for the unit kneed used to connect mating of the LISN was need upon a non-metallicend for floor-standing are cound reference plane, the a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The fof the LISN 1 and the quipment was at least 0 am emission, the relative terface cables must be	bugh a LISN 1 (Line a 50Ω/50μH + 5Ω line in the EUT were do not the ground reference plane above the trangement, the EUT derence plane. The red reference plane. The horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of the positions of	near ence to a ne was ear ne he		

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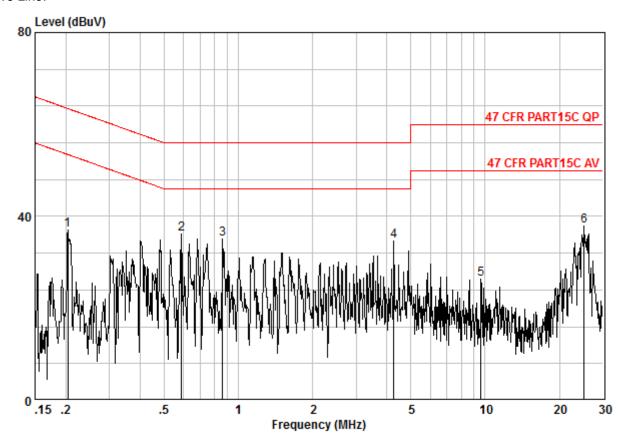
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Measurement Data

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. : 5813CR Test Mode : TX

	Freq		LISN Factor				Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20396	0.02	9.83	27.24	37.09	53.45	-16.36	Peak
2	0.58851	0.01	9.87	26.32	36.20	46.00	-9.80	Peak
3	0.86185	0.02	9.89	25.23	35.13	46.00	-10.87	Peak
4	4.269	0.01	10.09	24.60	34.71	46.00	-11.29	Peak
5	9.603	0.01	10.15	16.16	26.32	50.00	-23.68	Peak
6	25.188	0.03	9.86	28.04	37.92	50.00	-12.08	Peak

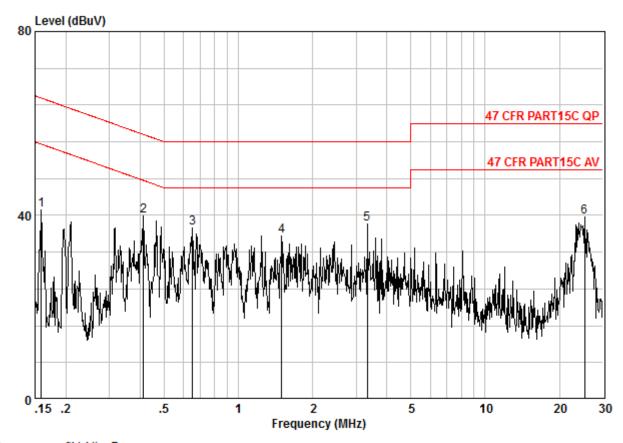
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C AV CE NEUTRAL

Job No. : 5813CR Test Mode : TX

	Freq		LISN Factor					Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15900	0.02	9.79	31.40	41.21	55.52	-14.30	Peak
2	0.41266	0.01	9.87	29.98	39.87	47.59	-7.73	Peak
3	0.65084	0.02	9.94	27.41	37.37	46.00	-8.63	Peak
4	1.495	0.02	10.08	25.40	35.50	46.00	-10.50	Peak
5	3.328	0.02	10.13	27.98	38.12	46.00	-7.88	Peak
6	25.321	0.03	9.97	29.75	39.74	50.00	-10.26	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:		
	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:	30dBm		
Test Results:	Pass		

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Pre-scan unc	der all rate at	lowest cha	annel 1					
Mode		802	.11b			_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	16.90	16.86	16.74	16.59				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	19.67	19.35	19.24	19.18	19.06	18.87	18.60	18.37
Mode		802.11n(HT20)						
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	19.86	19.71	19.57	19.38	19.21	19.09	18.88	18.62
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	19.59	19.27	19.13	19.04	18.89	18.64	18.46	18.31

Through Pre-scan, 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).



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Measurement Data

	COO 441					
	802.11b mo	ae				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	16.90	30.00	Pass			
Middle	16.50	30.00	Pass			
Highest	16.00	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.67	30.00	Pass			
Middle	20.20	30.00	Pass			
Highest	20.72	30.00	Pass			
	802.11n(HT20)mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.86	30.00	Pass			
Middle	20.37	30.00	Pass			
Highest	20.93	30.00	Pass			
802.11n(HT40)mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.59	30.00	Pass			
Middle	19.91	30.00	Pass			
Highest	20.17	30.00	Pass			



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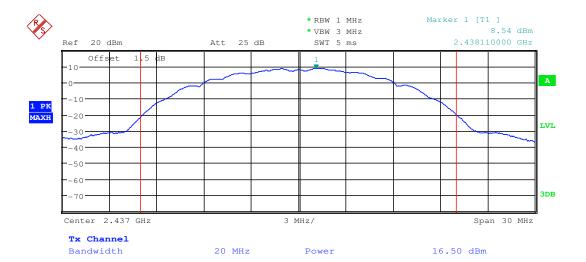
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode:	802.11b	Test channel:	Middle
	00=:::0		



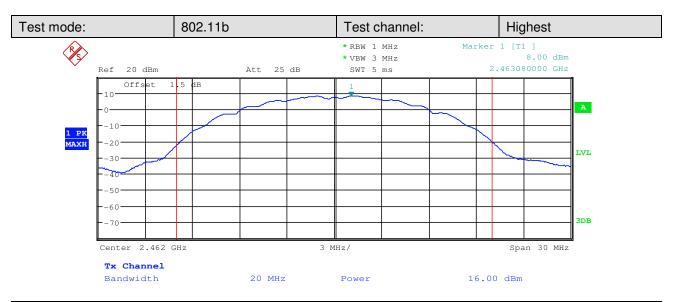


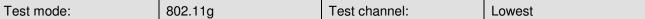
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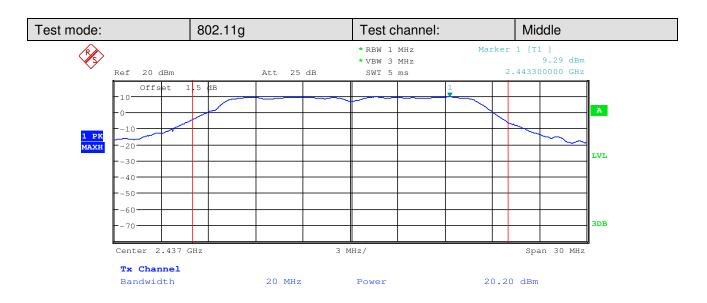


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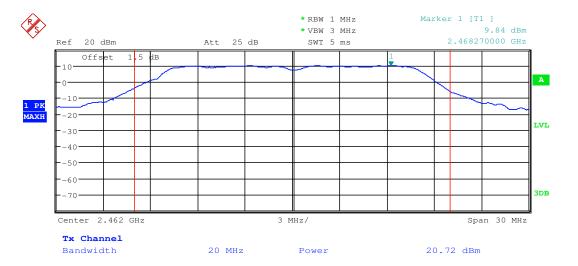


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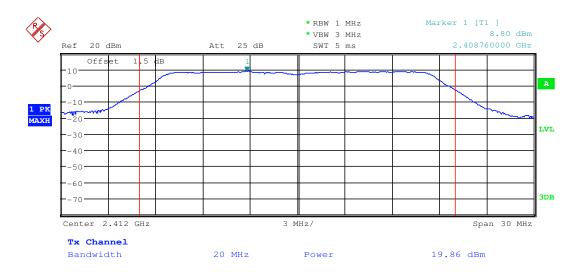
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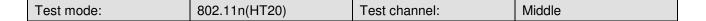


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Test mode: 802.11n(HT20) Test channel: Lowest







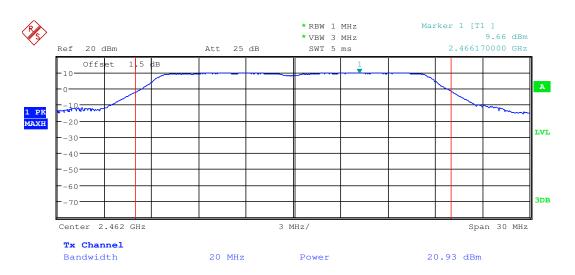
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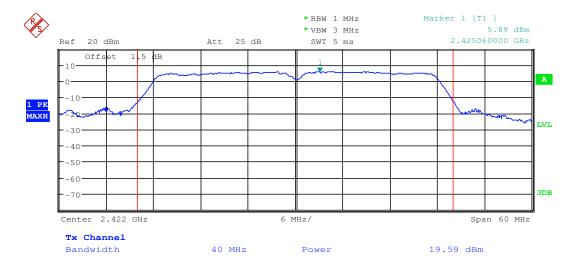
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Test mode: 802.11n(HT20) Test channel: Highest







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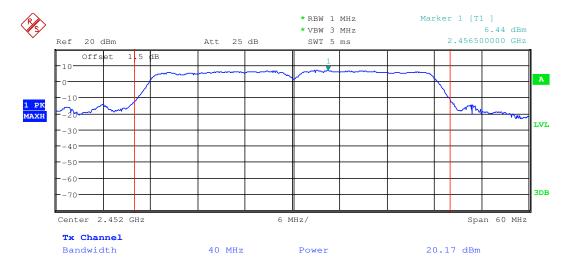
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Test mode: 802.11n(HT40) Test channel: Middle







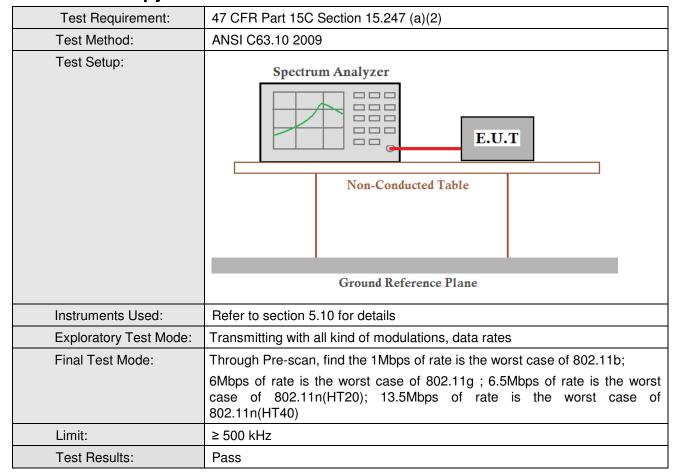
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6.4 6dB Occupy Bandwidth



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Measurement Data

WCasarciniciti 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	16.650	≥500	Pass			
802.11n(HT20) mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	17.780	≥500	Pass			
Middle	17.780	≥500	Pass			
Highest	17.780	≥500	Pass			
802.11n(HT40)mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	36.480	≥500	Pass			
Middle	36.480	≥500	Pass			
Highest	36.480	≥500	Pass			

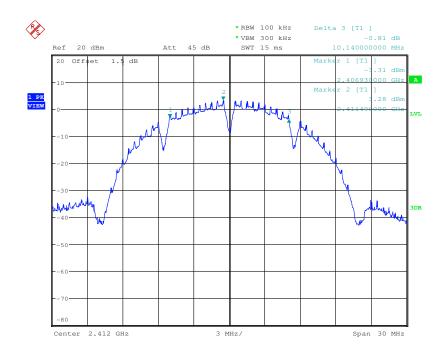


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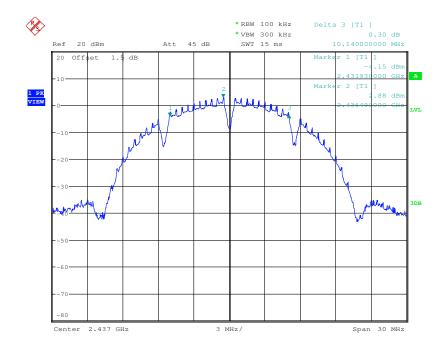
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest







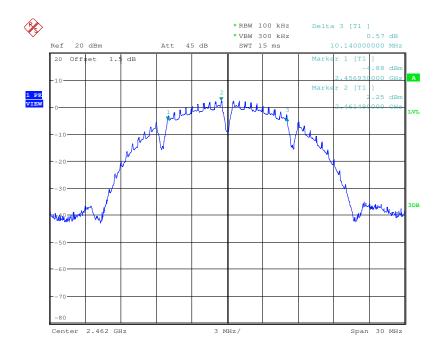
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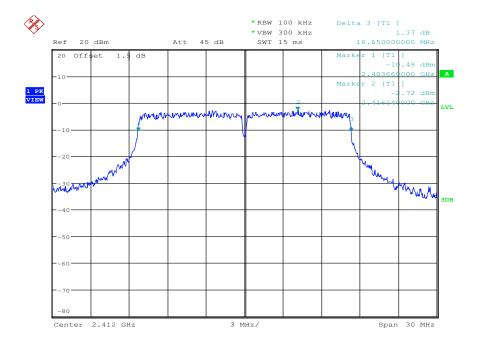
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Test mode: 802.11b Test channel: Highest







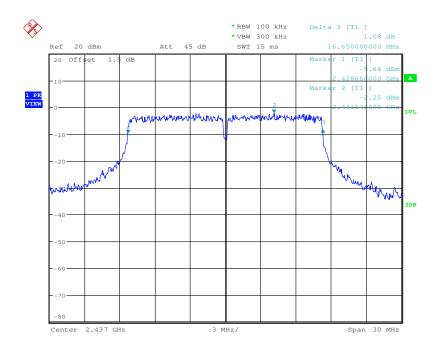
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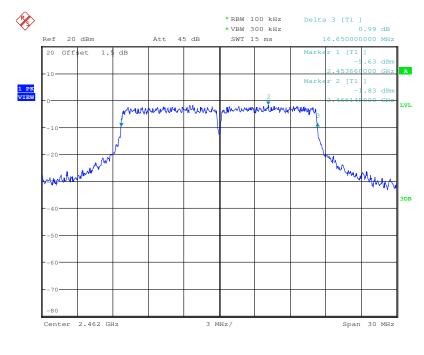
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Test mode: 802.11g Test channel: Middle



rest mode: 802.11g rest channel: Highest	Test mode:	802.11g	Test channel:	Highest
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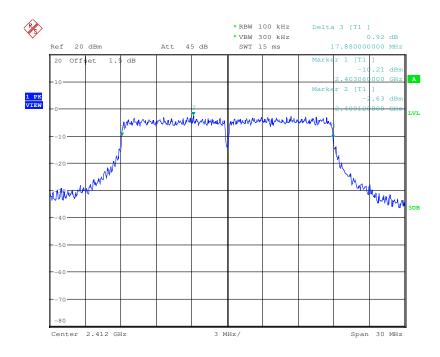
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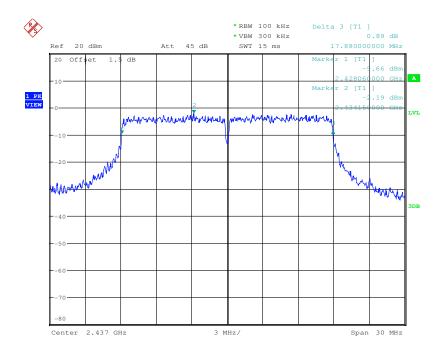
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Test mode: 802.11n(HT20) Test channel: Lowest







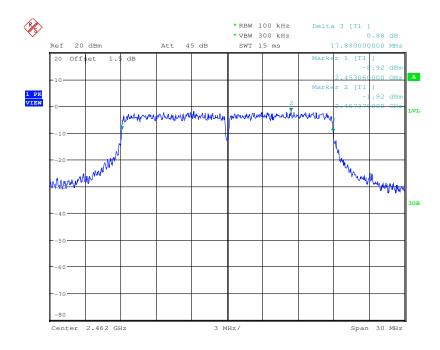
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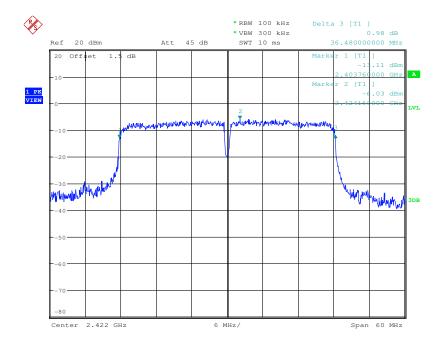
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Test mode: 802.11n(HT20) Test channel: Highest







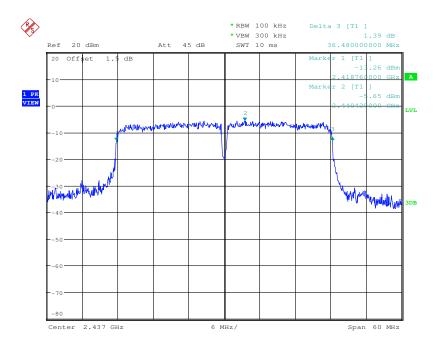
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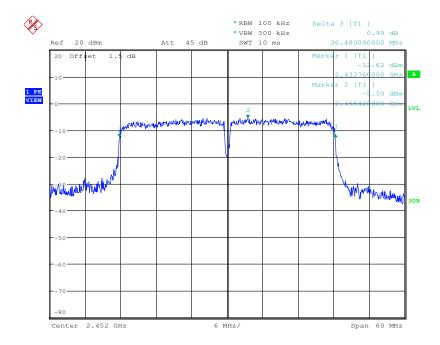
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Test mode: 802.11n(HT40) Test channel: Middle







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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/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-17.12	≤8.00	Pass			
Middle	-17.23	≤8.00	Pass			
Highest	-17.81	≤8.00	Pass			
	802.11g mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-16.77	≤8.00	Pass			
Middle	-16.44	≤8.00	Pass			
Highest	-16.02	≤8.00	Pass			
	802.11n(HT20) mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-16.52	≤8.00	Pass			
Middle	-16.10	≤8.00	Pass			
Highest	-15.73	≤8.00	Pass			
802.11n(HT40) mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	18.24	≤8.00	Pass			
Middle	-17.07	≤8.00	Pass			
Highest	-15.82	≤8.00	Pass			

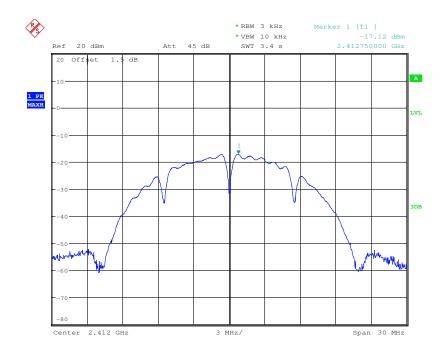


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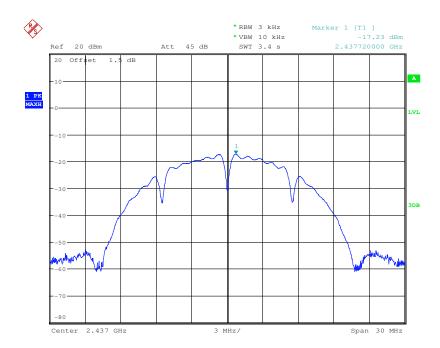
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest







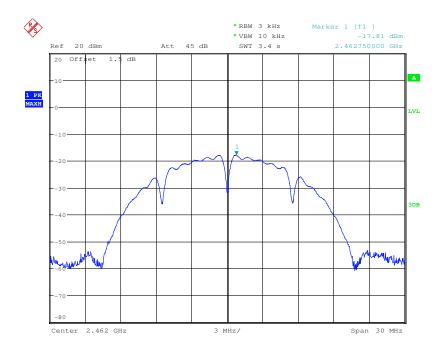
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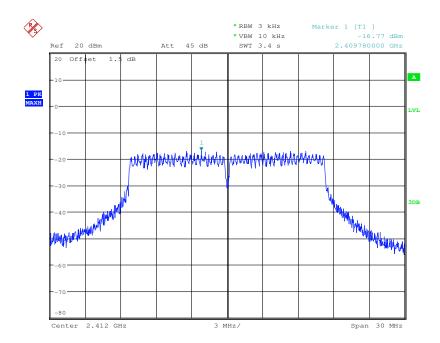
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Test mode: 802.11b Test channel: Highest



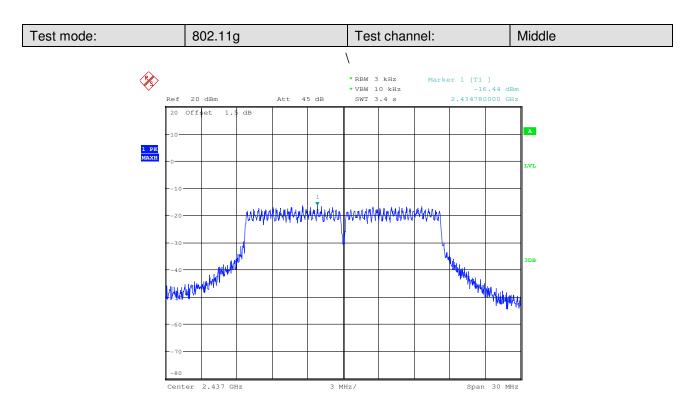




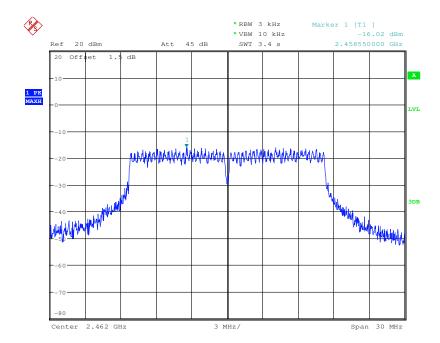


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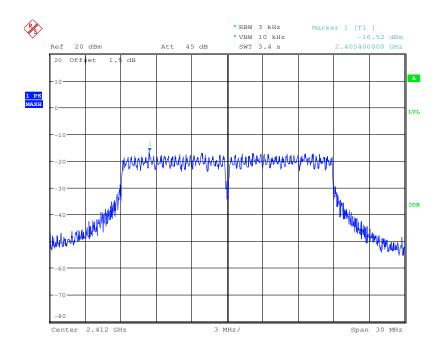
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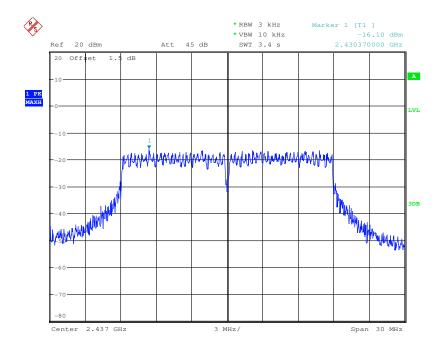
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Test mode: 802.11n(HT20) Test channel: Lowest





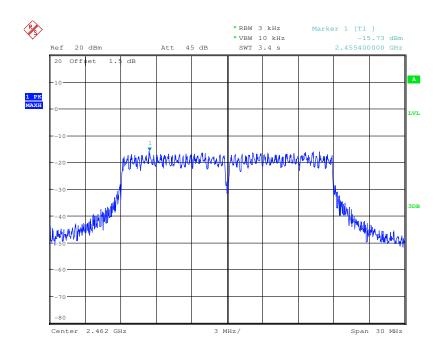




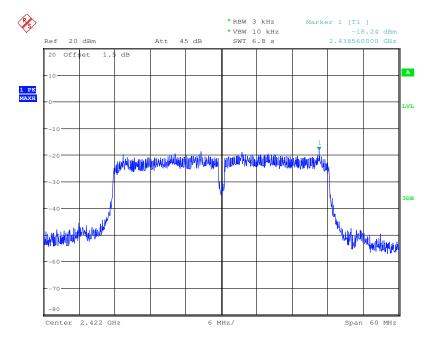
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Test mode: 802.11n(HT20) Test channel: Highest



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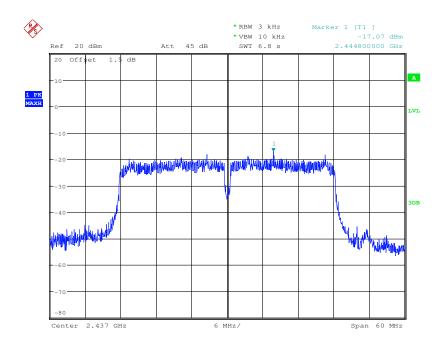




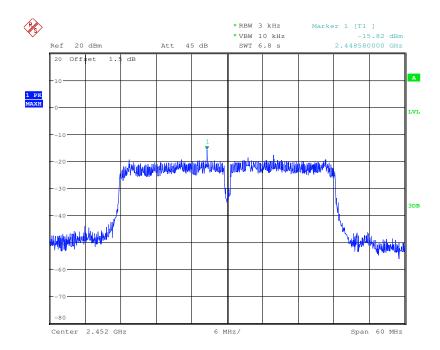
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Test mode: 802.11n(HT40) Test channel: Middle









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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: 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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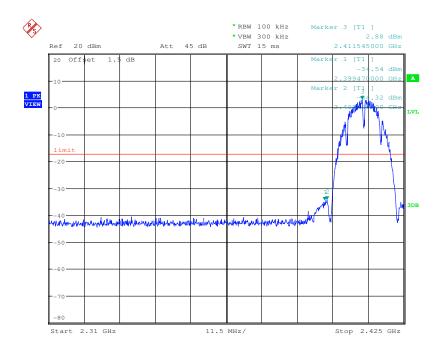


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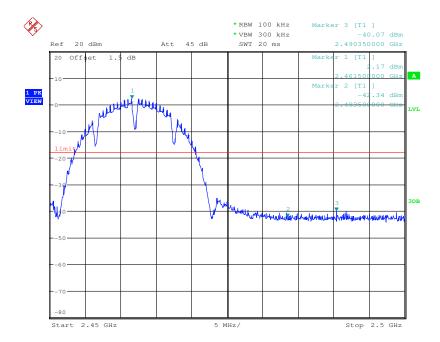
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





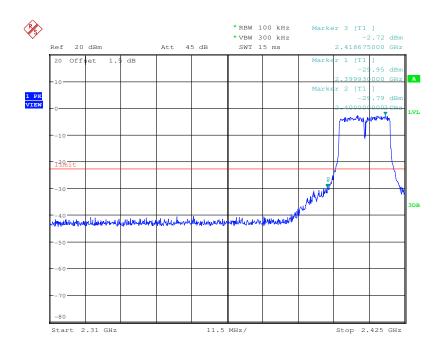


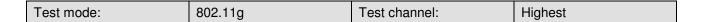


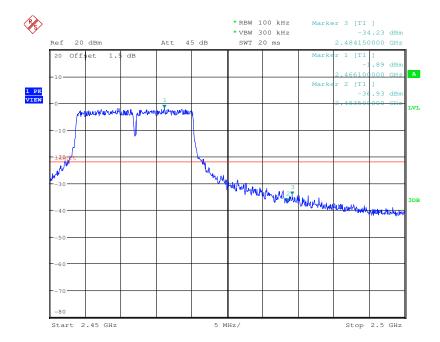
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Test mode: 802.11g Test channel: Lowest







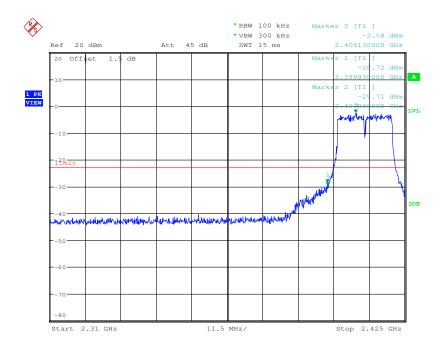
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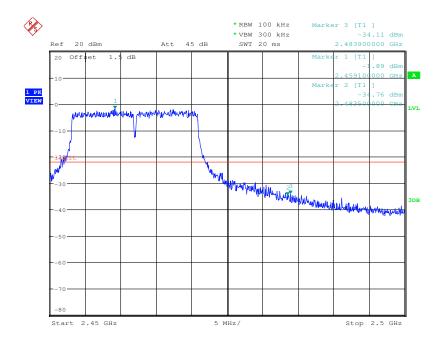
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Test mode: 802.11n(HT20) Test channel: Lowest





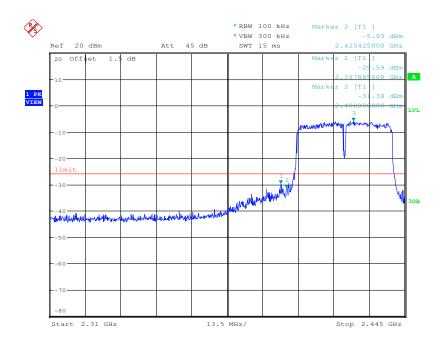




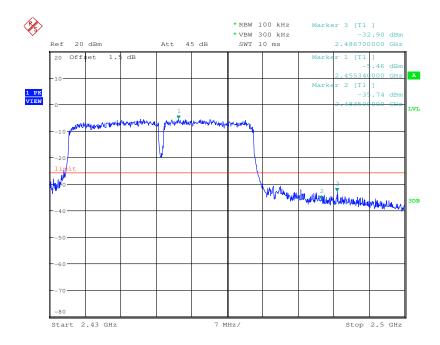
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Test mode: 802.11n(HT40) Test channel: Lowest









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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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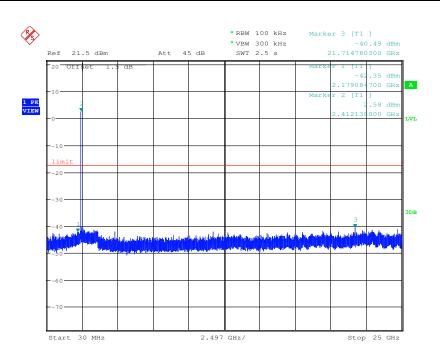


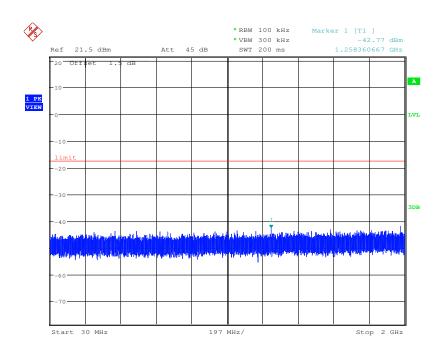
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

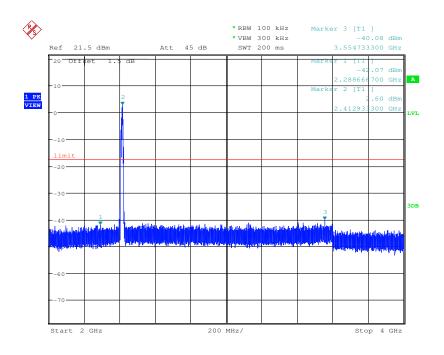


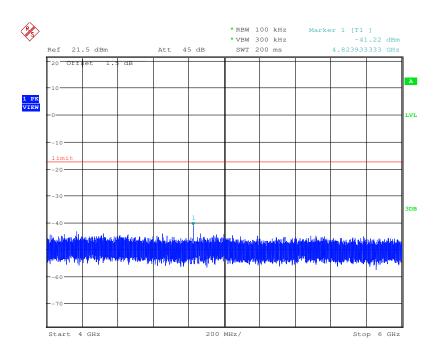




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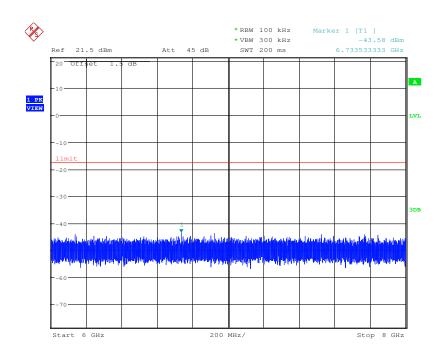


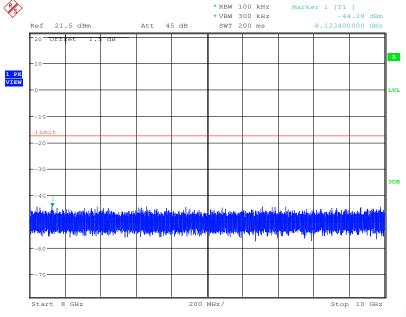
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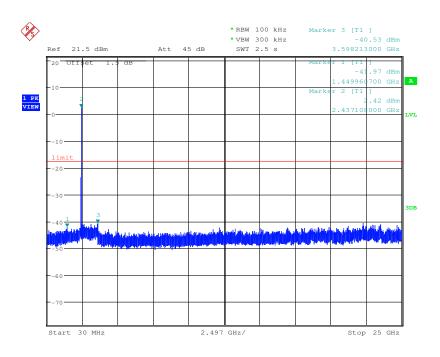


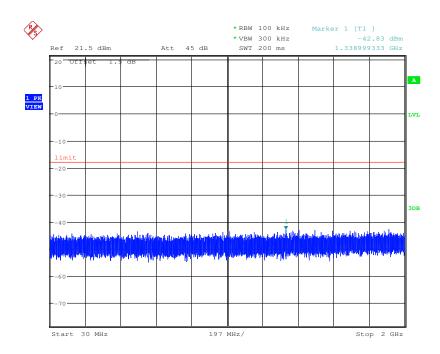


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Test mode: 802.11b Test channel: Middle



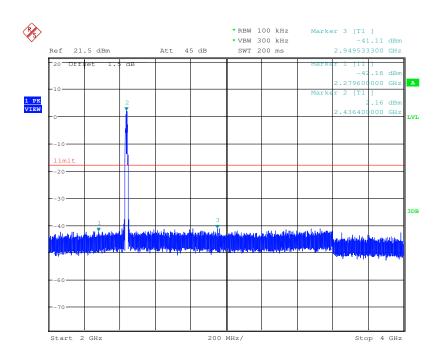


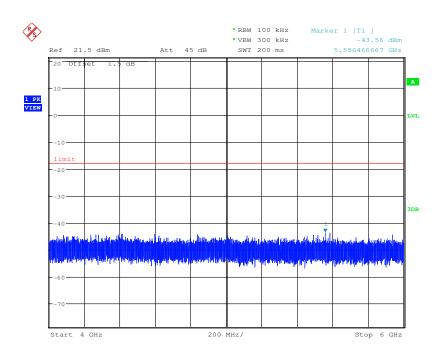
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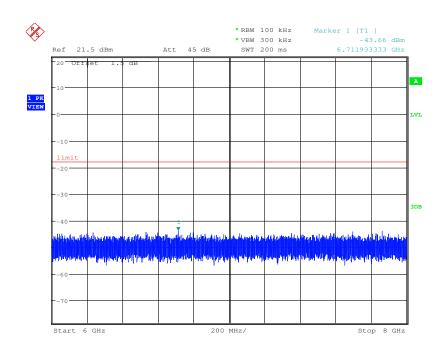


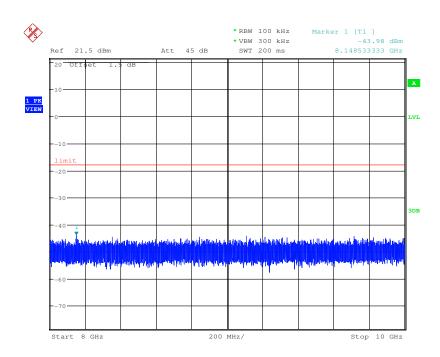
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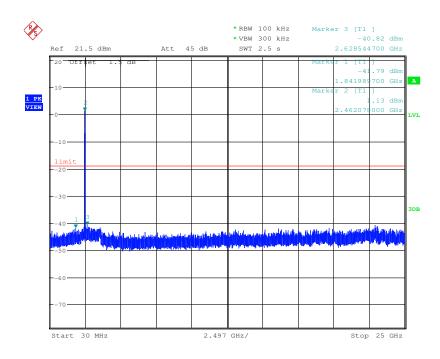
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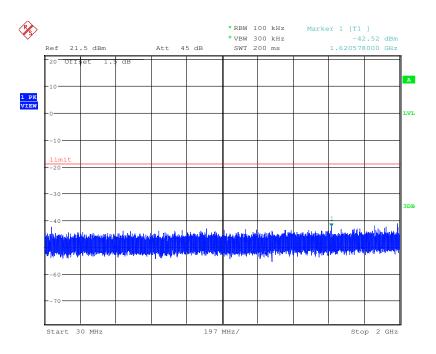


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Test mode: 802.11b Test channel: Highest



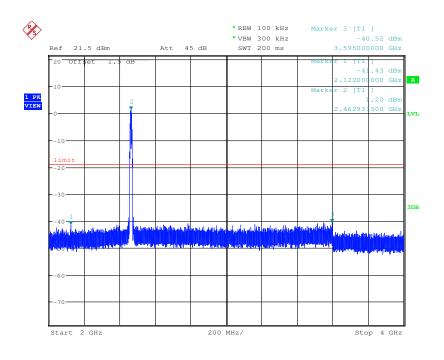


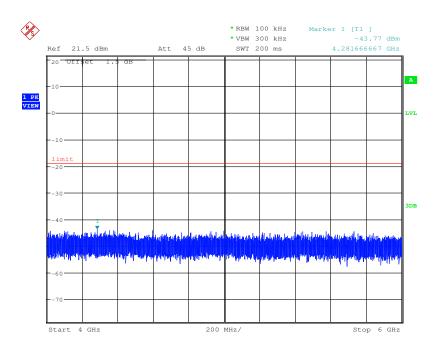
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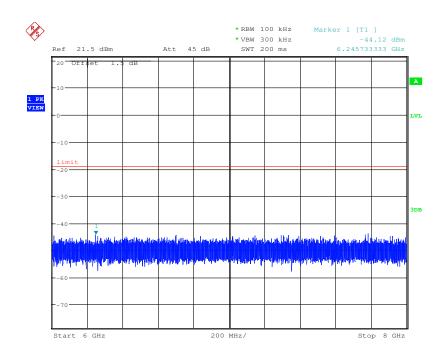


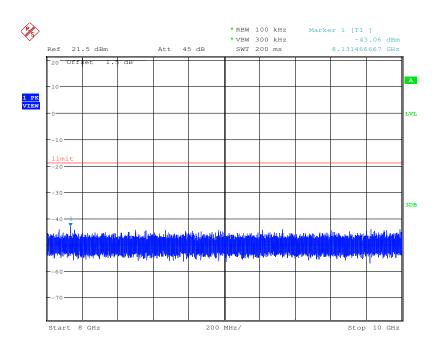
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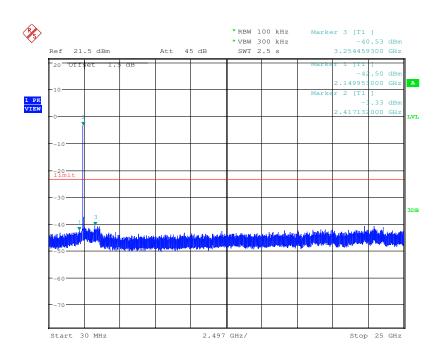
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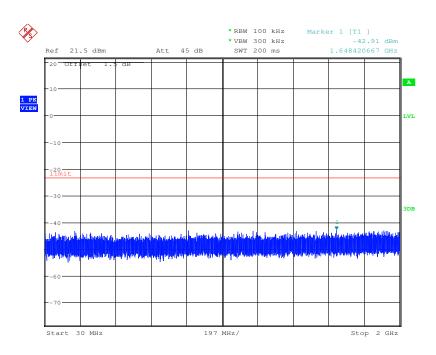


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Test mode: 802.11g Test channel: Lowest



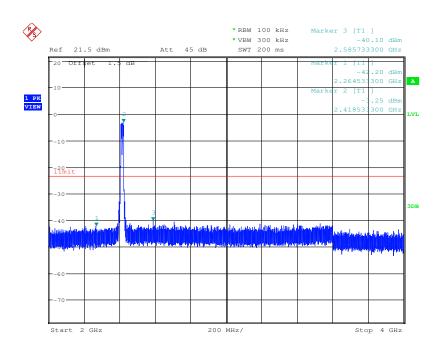


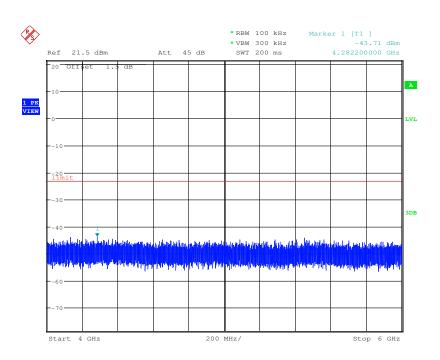
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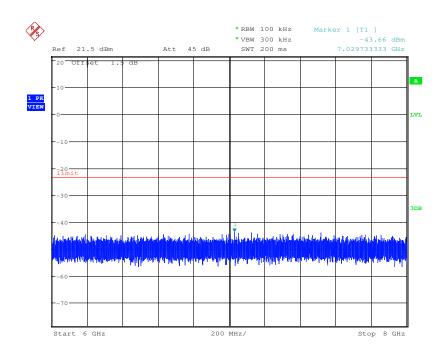


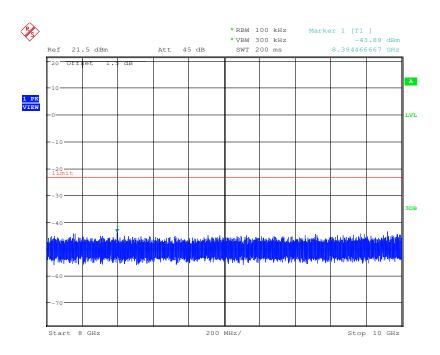




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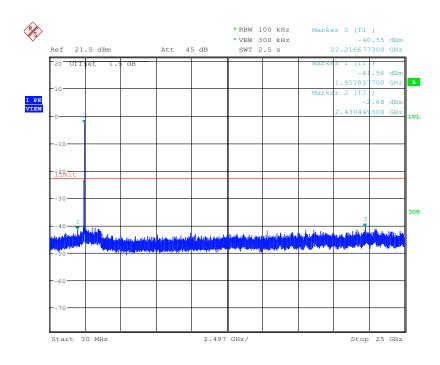
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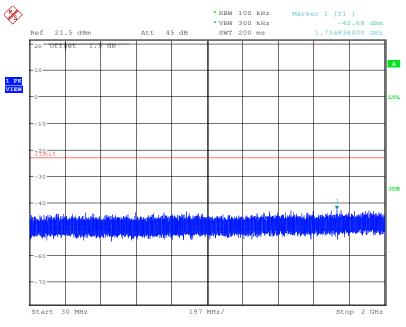


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Test mode: 802.11g Test channel: Middle



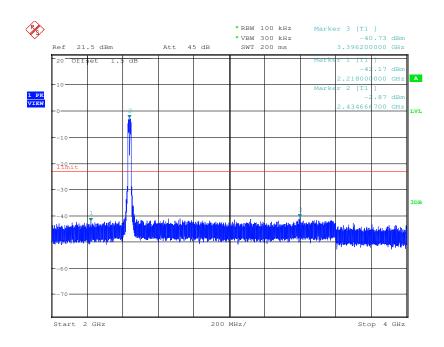


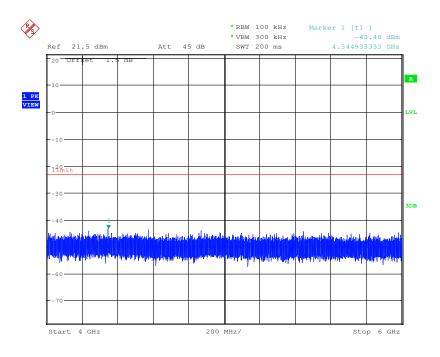




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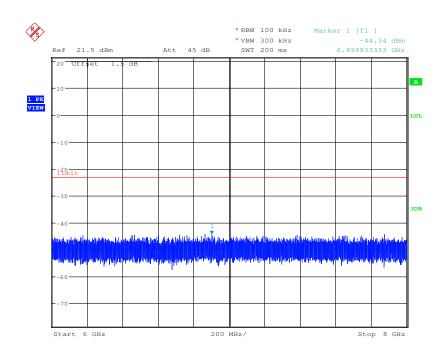


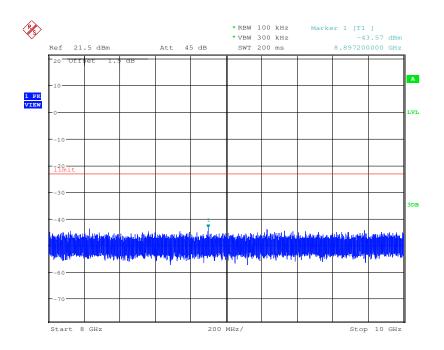
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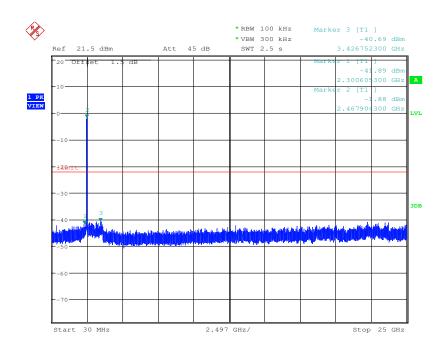


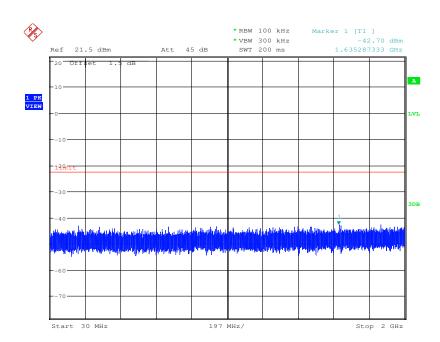


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Test mode: 802.11g Test channel: Highest



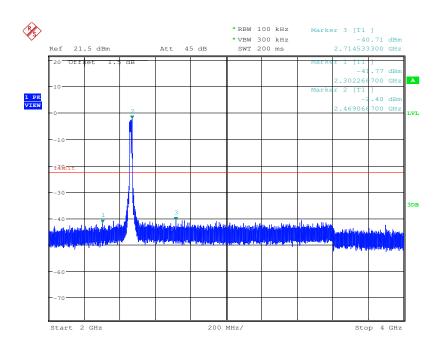


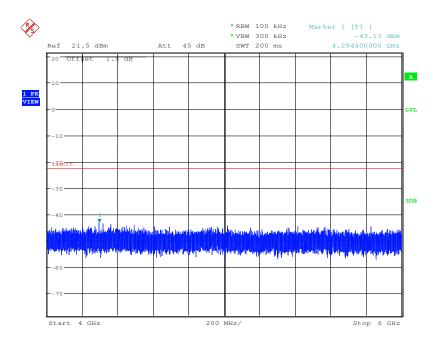
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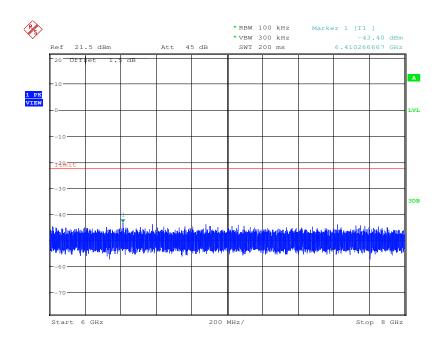


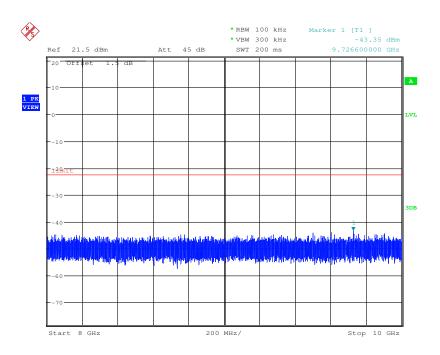
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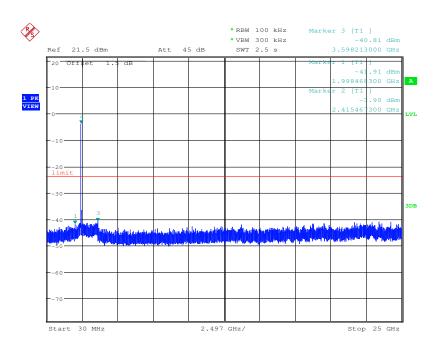
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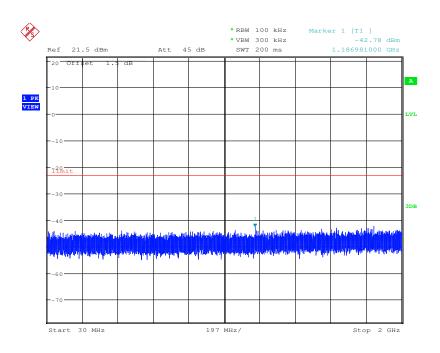


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Test mode: 802.11n(HT20) Test channel: Lowest

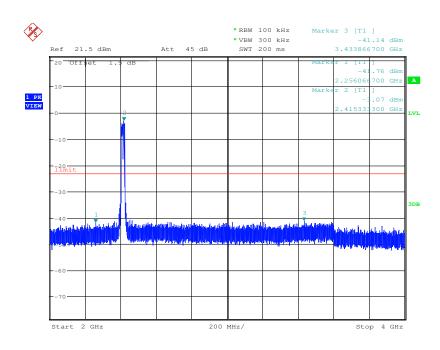


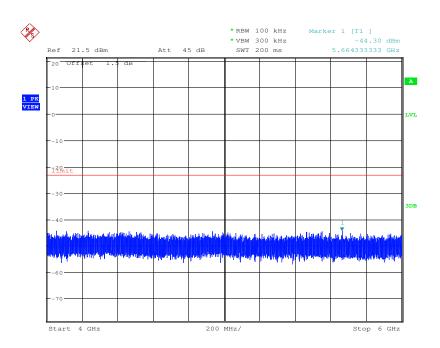




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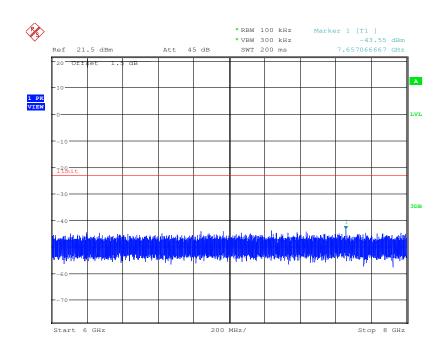


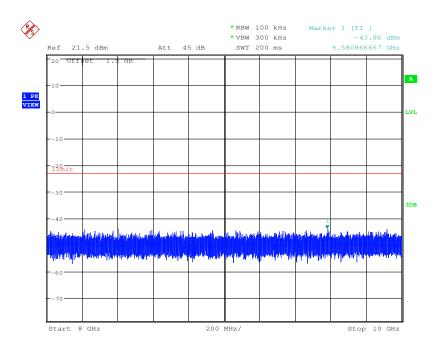
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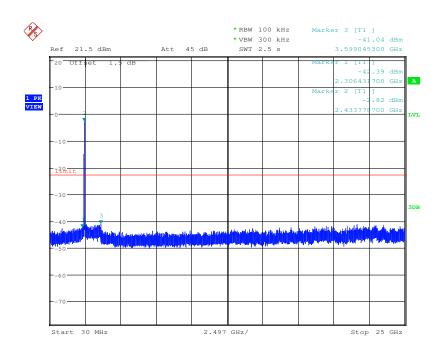


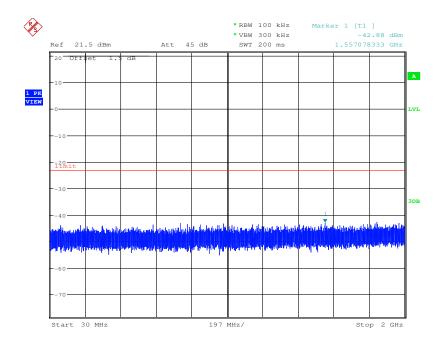


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Test mode: 802.11n(HT20) Test channel: Middle



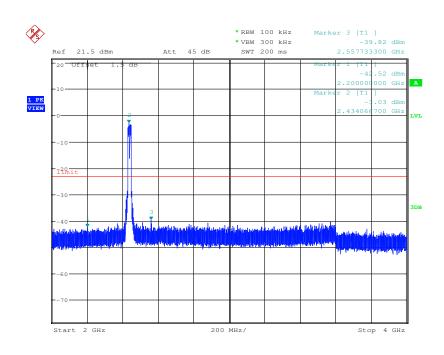


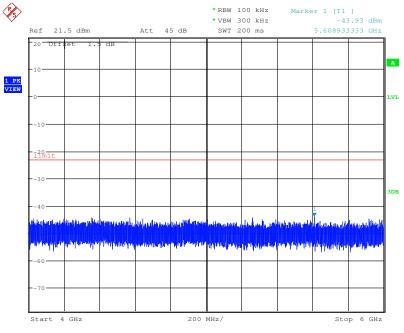
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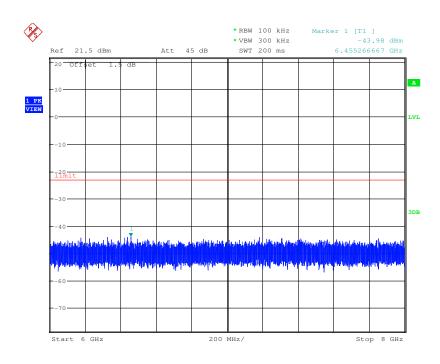


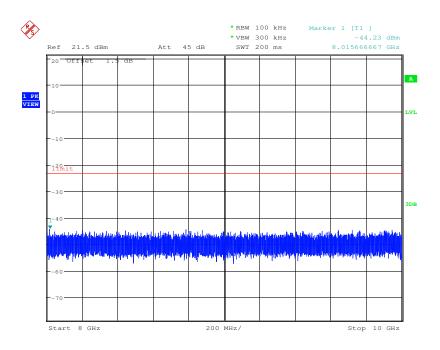




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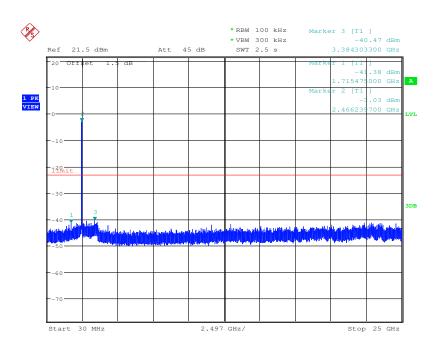


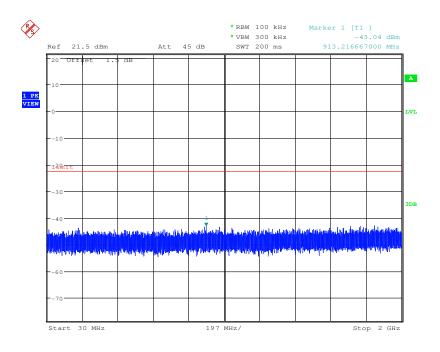


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Test mode: 802.11n(HT20) Test channel: Highest



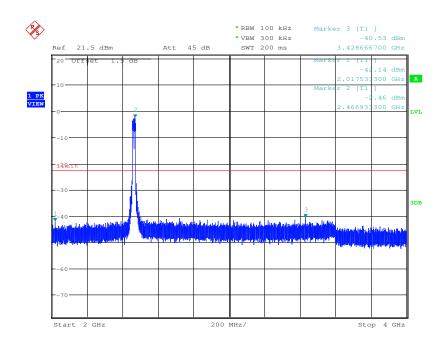


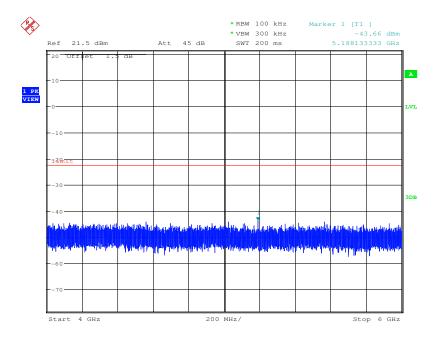
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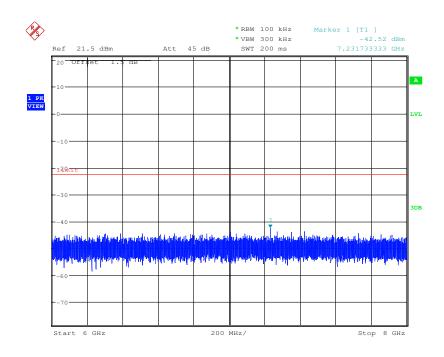


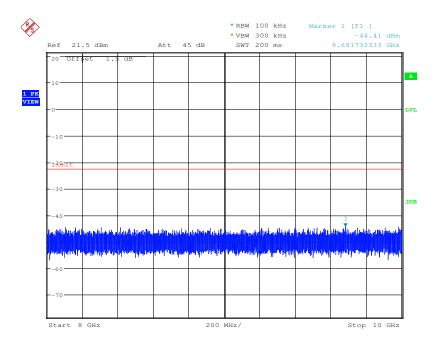
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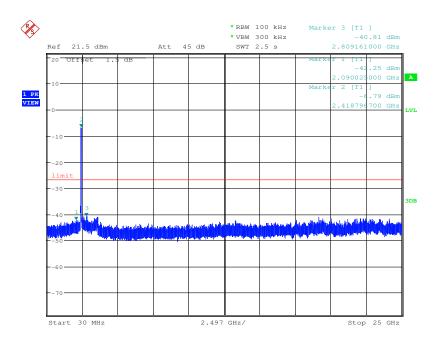
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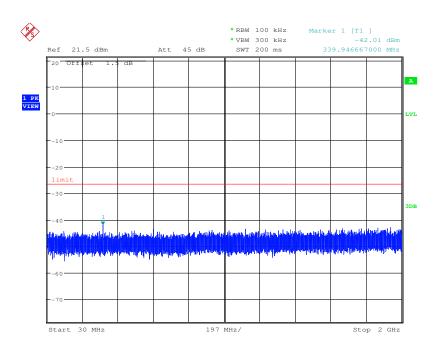


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Test mode: 802.11n(HT40) Test channel: Lowest



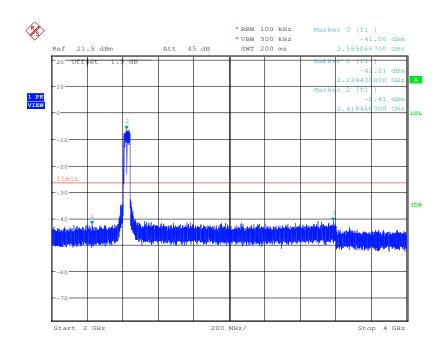


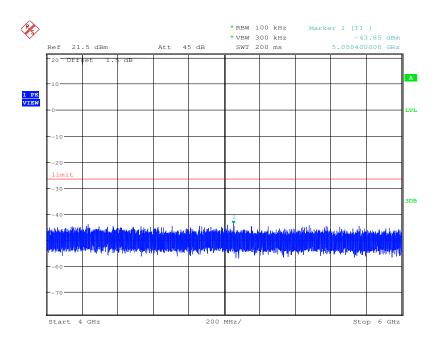
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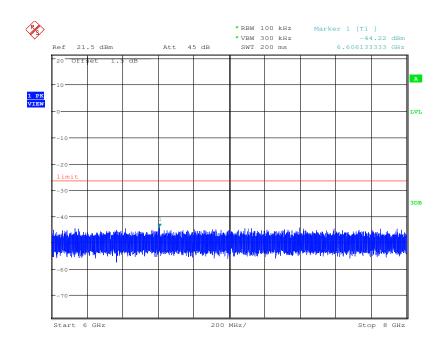


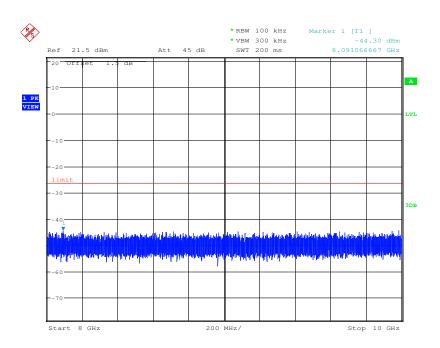
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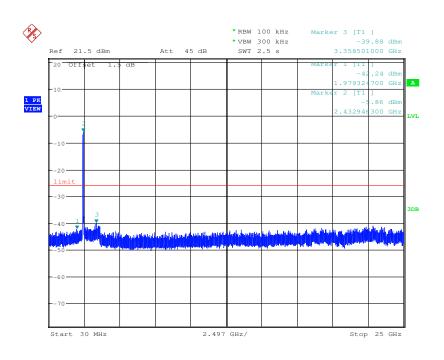


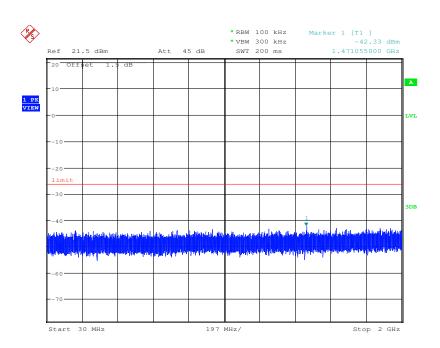


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Test mode: 802.11n(HT40) Test channel: Middle



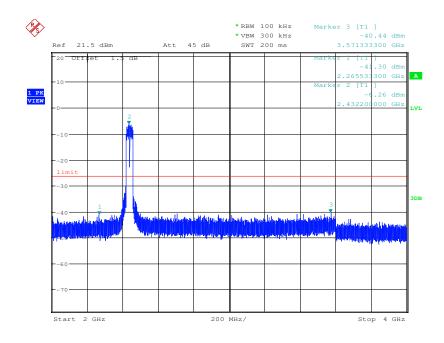


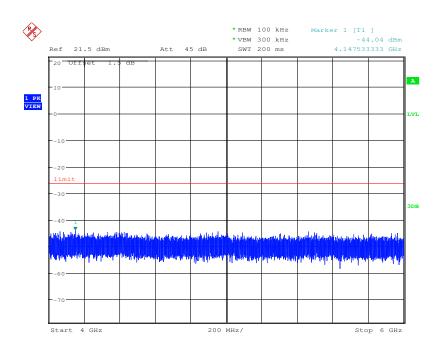
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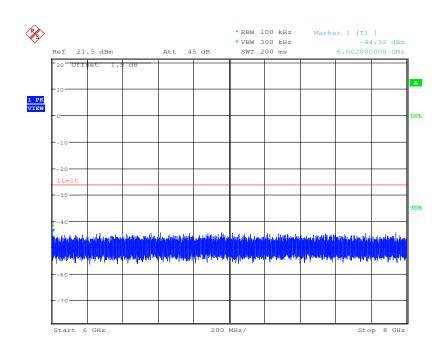


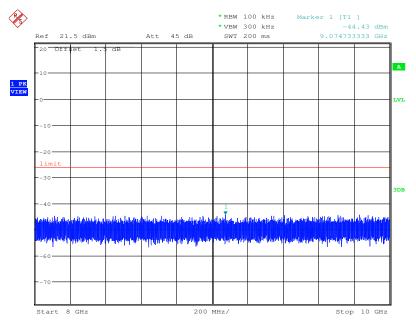
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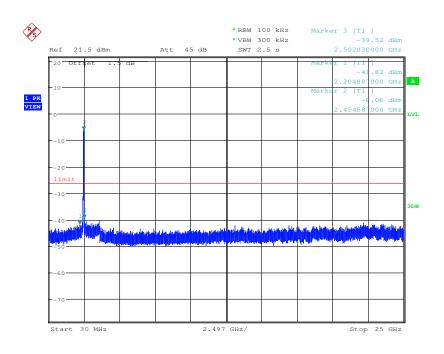


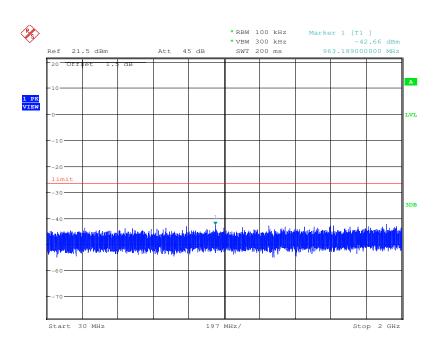


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Test mode: 802.11n(HT40) Test channel: Highest



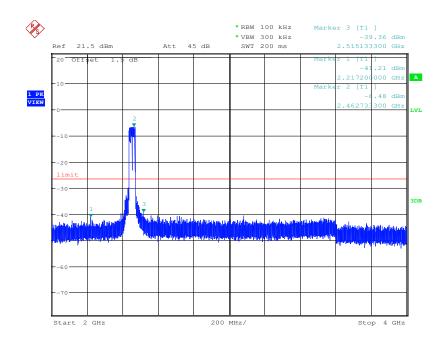


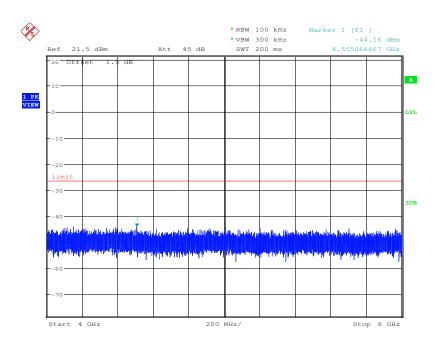
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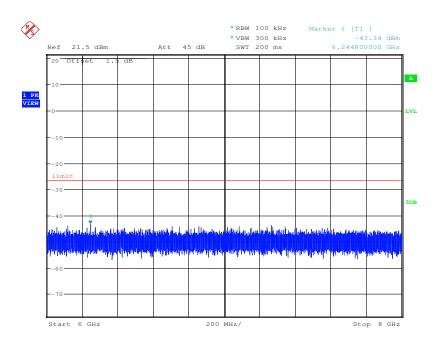


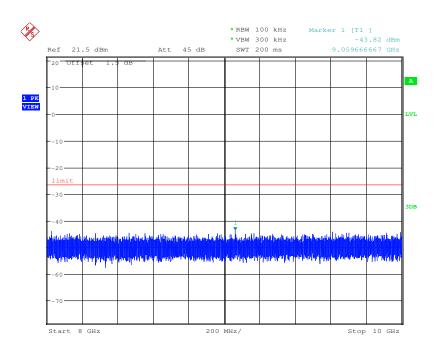
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Remark:

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	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 IGHZ	Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement 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
	Note: 15.35(b), Unless of emissions is 20dB applicable to the emission level radio	above the maximuquipment under te	um permitted st. This peak	average emi	ssion limit

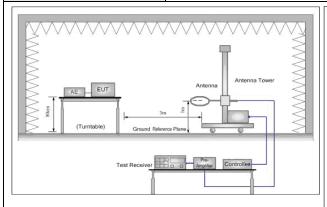
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Test Setup:



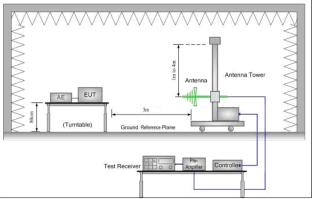


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

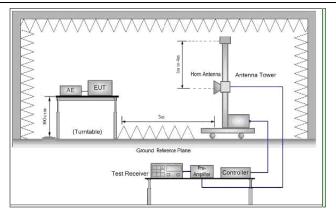


Figure 3. Above 1 GHz

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.
- o. 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.
- e. 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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	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. 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:	Pretest the EUT at Transmitting 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

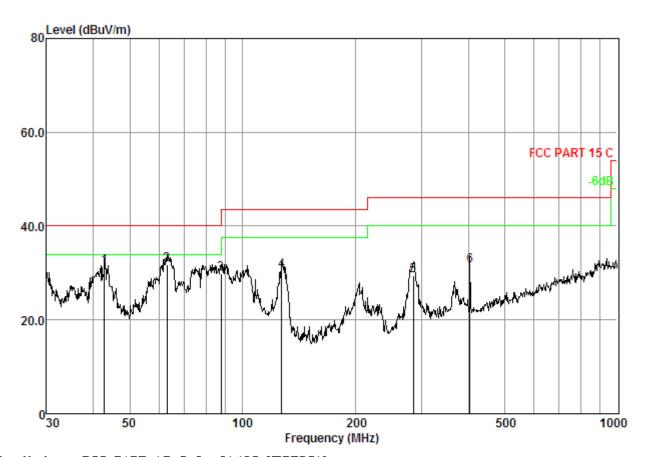


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6.8.1 Radiated emission below 1GHz

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



Condition: FCC PART 15 C 3m 3142C VERTICAL Job No. : 5813CR

Test Mode: TX mode

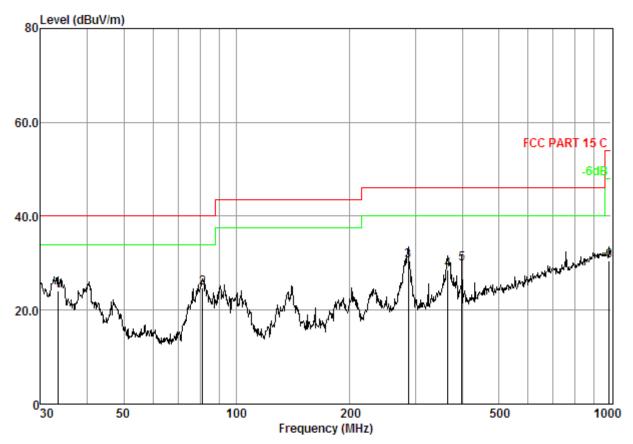
	Freq	CableAntenna l Loss Factor l		-	Read Level		Limit Line	Over Limit
_	MHz	d₿	dB/m	dB	dBuV	dBuV/m	$\overline{\text{dBuV/m}}$	dB
1 2 3 4 5 6	42. 75 62. 87 87. 72 127. 22 285. 98 404. 67	0.86 1.09 1.33 1.64 2.68 3.29	11.80 7.11 8.48 7.75 13.30 16.32	25. 71 25. 90 25. 81 24. 88 25. 05 25. 61	44. 40 49. 52 45. 87 46. 06 38. 50 37. 64	31.35 31.82 29.87 30.57 29.43 31.64	43.50 46.00	-8.65 -8.18 -10.13 -12.93 -16.57 -14.36



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Condition: FCC PART 15 C 3m 3142C HORIZONTAL

Job No. : 5813CR Test Mode: TX mode

	Freq	CableAntenna : Loss Factor :			Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBu∀	dBuV/m	$\overline{\text{dBuV/m}}$	d B
1 2 3 4 5 6	33. 33 81. 21 286. 98 366. 82 399. 03 986. 07	0.69 1.29 2.69 3.09 3.29 5.68	16. 64 7. 82 13. 35 15. 81 16. 28 24. 13	25. 71 25. 34 24. 75 25. 55 25. 48 25. 78	32. 53 40. 93 39. 15 35. 27 35. 72 26. 54	24. 15 24. 70 30. 44 28. 62 29. 81 30. 57	40.00 46.00 46.00 46.00	-15.85 -15.30 -15.56 -17.38 -16.19 -23.43



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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)	Polarization
3555.000	-31.30	32.30	0.00	43.10	44.10	74.00	-29.90	Vertical
4824.000	-30.40	34.40	0.00	40.70	44.70	74.00	-29.30	Vertical
5970.000	-28.90	34.80	0.00	39.10	45.00	74.00	-29.00	Vertical
7236.000	-27.90	35.80	0.00	37.70	45.60	74.00	-28.40	Vertical
9648.000	-25.10	37.20	0.00	35.10	47.20	74.00	-26.80	Vertical
12630.000	-23.00	38.10	0.00	34.10	49.20	74.00	-24.80	Vertical
3555.000	-31.30	32.30	0.00	50.90	51.90	74.00	-22.10	Horizontal
4824.000	-30.40	34.40	0.00	47.00	51.00	74.00	-23.00	Horizontal
5955.000	-29.00	34.70	0.00	42.10	47.80	74.00	-26.20	Horizontal
7236.000	-27.90	35.80	0.00	38.00	45.90	74.00	-28.10	Horizontal
9648.000	-25.10	37.20	0.00	35.60	47.70	74.00	-26.30	Horizontal
12600.000	-22.80	38.10	0.00	35.10	50.40	74.00	-23.60	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)	Polarization
3555.000	-31.30	32.30	0.00	43.00	44.00	74.00	-30.00	Vertical
4874.000	-30.40	34.50	0.00	42.90	47.00	74.00	-27.00	Vertical
6000.000	-28.80	34.90	0.00	39.40	45.50	74.00	-28.50	Vertical
7311.000	-27.90	35.70	0.00	38.00	45.80	74.00	-28.20	Vertical
9748.000	-25.00	37.30	0.00	35.10	47.40	74.00	-26.60	Vertical
12645.000	-23.10	38.10	0.00	34.70	49.70	74.00	-24.30	Vertical
3555.000	-31.30	32.30	0.00	49.60	50.60	74.00	-23.40	Horizontal
4874.000	-30.40	34.50	0.00	46.70	50.80	74.00	-23.20	Horizontal
5955.000	-29.00	34.70	0.00	41.00	46.70	74.00	-27.30	Horizontal
7311.000	-27.90	35.70	0.00	37.80	45.60	74.00	-28.40	Horizontal
9748.000	-25.00	37.30	0.00	35.20	47.50	74.00	-26.50	Horizontal
12645.000	-23.10	38.10	0.00	34.60	49.60	74.00	24.40	Horizontal



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Test mode:	802	2.11b	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)	Polarization
3555.000	-31.30	32.30	0.00	42.40	43.40	74.00	-30.60	Vertical
4924.000	-30.30	34.60	0.00	42.60	46.90	74.00	-27.10	Vertical
6075.000	-29.10	35.00	0.00	39.60	45.50	74.00	-28.50	Vertical
7386.000	-27.90	35.70	0.00	38.30	46.10	74.00	-27.90	Vertical
9848.000	-24.20	37.30	0.00	33.80	46.90	74.00	-27.10	Vertical
12630.000	-23.00	38.10	0.00	35.00	50.10	74.00	-23.90	Vertical
3555.000	-31.30	32.30	0.00	52.40	53.40	74.00	-20.60	Horizontal
4924.000	-30.30	34.60	0.00	46.90	51.20	74.00	-22.80	Horizontal
6030.000	-28.90	35.00	0.00	39.70	45.80	74.00	-28.20	Horizontal
7386.000	-27.90	35.70	0.00	38.00	45.80	74.00	-28.20	Horizontal
9848.000	-24.20	37.30	0.00	34.90	48.00	74.00	-26.00	Horizontal
12720.000	-23.60	38.10	0.00	35.00	49.50	74.00	-24.50	Horizontal

Test mode:	80)2.11g	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)	Polarization
3555.000	-31.30	32.30	0.00	41.40	42.40	74.00	-31.60	Vertical
4824.000	-30.40	34.40	0.00	39.10	43.10	74.00	-30.90	Vertical
6000.000	-28.80	34.90	0.00	38.90	45.00	74.00	-29.00	Vertical
7236.000	-27.90	35.80	0.00	37.20	45.10	74.00	-28.90	Vertical
9648.000	-25.10	37.20	0.00	34.90	47.00	74.00	-27.00	Vertical
12600.000	-22.80	38.10	0.00	34.10	49.40	74.00	-24.60	Vertical
3555.000	-31.30	32.30	0.00	51.20	52.20	74.00	-21.80	Horizontal
4824.000	-30.40	34.40	0.00	43.00	47.00	74.00	-27.00	Horizontal
5955.000	-29.00	34.70	0.00	44.10	49.80	74.00	-24.20	Horizontal
7236.000	-27.90	35.80	0.00	36.90	44.80	74.00	-29.20	Horizontal
9648.000	-25.10	37.20	0.00	35.10	47.20	74.00	-26.80	Horizontal
12615.000	-22.90	38.10	0.00	34.40	49.60	74.00	-24.40	Horizontal

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Test mode:	8	02.11g	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)	Polarization
3555.000	-31.30	32.30	0.00	42.10	43.10	74.00	-30.90	Vertical
4874.000	-30.40	34.50	0.00	39.30	43.40	74.00	-30.60	Vertical
5985.000	-28.90	34.80	0.00	38.60	44.50	74.00	-29.50	Vertical
7311.000	-27.90	35.70	0.00	37.90	45.70	74.00	-28.30	Vertical
9748.000	-25.00	37.30	0.00	35.80	48.10	74.00	-25.90	Vertical
12645.000	-23.10	38.10	0.00	33.90	48.90	74.00	-25.10	Vertical
3556.687	-31.30	32.30	0.00	50.80	51.80	74.00	-22.20	Horizontal
4874.000	-30.40	34.50	0.00	42.00	46.10	74.00	-27.90	Horizontal
6015.000	-28.90	34.90	0.00	39.00	45.00	74.00	-29.00	Horizontal
7311.000	-27.90	35.70	0.00	37.20	45.00	74.00	-29.00	Horizontal
9748.000	-25.00	37.30	0.00	34.50	46.80	74.00	-27.20	Horizontal
12615.000	-22.90	38.10	0.00	33.70	48.90	74.00	-25.10	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
3555.000	-31.30	32.30	0.00	43.50	44.50	74.00	-29.50	Vertical
4924.000	-30.30	34.60	0.00	39.00	43.30	74.00	-30.70	Vertical
5940.000	-29.00	34.70	0.00	39.00	44.70	74.00	-29.30	Vertical
7386.000	-27.90	35.70	0.00	37.40	45.20	74.00	-28.80	Vertical
9848.000	-24.20	37.30	0.00	33.80	46.90	74.00	-27.10	Vertical
12690.000	-23.40	38.10	0.00	34.40	49.10	74.00	-24.90	Vertical
3555.000	-31.30	32.30	0.00	51.00	52.00	74.00	-22.00	Horizontal
4924.000	-30.30	34.60	0.00	42.20	46.50	74.00	-27.50	Horizontal
5940.000	-29.00	34.70	0.00	41.10	46.80	74.00	-27.20	Horizontal
7386.000	-27.90	35.70	0.00	38.10	45.90	74.00	-28.10	Horizontal
9848.000	-24.20	37.30	0.00	34.20	47.30	74.00	-26.70	Horizontal
12690.000	-23.40	38.10	0.00	35.40	50.10	74.00	-23.90	Horizontal

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Test mode:		802	.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cal Lo: (dl	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3555.000	-31.	.30	32.30	0.00	41.00	42.00	74.00	-32.00	Vertical
4824.000	-30.	.40	34.40	0.00	38.50	42.50	74.00	-31.50	Vertical
6075.000	-29.	.10	35.00	0.00	38.40	44.30	74.00	-29.70	Vertical
7236.000	-27.	.90	35.80	0.00	37.10	45.00	74.00	-29.00	Vertical
9648.000	-25.	.10	37.20	0.00	35.40	47.50	74.00	-26.50	Vertical
12645.000	-23.	.10	38.10	0.00	34.30	49.30	74.00	-24.70	Vertical
3555.000	-31.	.30	32.30	0.00	49.30	50.30	74.00	-23.70	Horizontal
4824.000	-30.	.40	34.40	0.00	43.20	47.20	74.00	-26.80	Horizontal
6195.000	-29.	.30	34.90	0.00	39.40	45.00	74.00	-29.00	Horizontal
7236.000	-27.	.90	35.80	0.00	37.20	45.10	74.00	-28.90	Horizontal
9648.000	-25.	.10	37.20	0.00	34.40	46.50	74.00	-27.50	Horizontal
12315.000	-22.	.60	37.90	0.00	33.50	48.80	74.00	-25.20	Horizontal

Test mode:		802.	.11n(HT20)	Test ch	annel:	Middle	Middle Remark:		Peak
Frequency (MHz)	Cak Los (dE	ss	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3555.000	-31.	.30	32.30	0.00	43.60	44.60	74.00	-29.40	Vertical
4874.000	-30.	.40	34.50	0.00	38.30	42.40	74.00	-31.60	Vertical
5940.000	-29.	.00	34.70	0.00	38.60	44.30	74.00	-29.70	Vertical
7311.000	-27.	.90	35.70	0.00	37.70	45.50	74.00	-28.50	Vertical
9748.000	-25.	.00	37.30	0.00	34.60	46.90	74.00	-27.10	Vertical
12330.000	-22.	.60	37.90	0.00	33.40	48.70	74.00	-25.30	Vertical
3555.000	-31.	.30	32.30	0.00	49.40	50.40	74.00	-23.60	Horizontal
4874.000	-30.	.40	34.50	0.00	41.30	45.40	74.00	-28.60	Horizontal
5955.000	-29.	.00	34.70	0.00	42.60	48.30	74.00	-25.70	Horizontal
7311.000	-27.	.90	35.70	0.00	37.10	44.90	74.00	-29.10	Horizontal
9748.000	-25.	.00	37.30	0.00	35.00	47.30	74.00	-26.70	Horizontal
12645.000	-23.	.10	38.10	0.00	34.00	49.00	74.00	-25.00	Horizontal

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Test mode:	80)2.11n(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
3555.000	-31.30	32.30	0.00	44.60	45.60	74.00	-28.40	Vertical
4924.000	-30.30	34.60	0.00	39.10	43.40	74.00	-30.60	Vertical
6000.000	-28.80	34.90	0.00	38.10	44.20	74.00	-29.80	Vertical
7386.000	-27.90	35.70	0.00	36.80	44.60	74.00	-29.40	Vertical
9848.000	-24.20	37.30	0.00	33.60	46.70	74.00	-27.30	Vertical
12660.000	-23.20	38.10	0.00	34.50	49.40	74.00	-24.60	Vertical
3555.000	-31.30	32.30	0.00	41.00	42.00	74.00	-32.00	Horizontal
4924.000	-30.30	34.60	0.00	38.40	42.70	74.00	-31.30	Horizontal
6000.000	-28.80	34.90	0.00	38.80	44.90	74.00	-29.10	Horizontal
7386.000	-27.90	35.70	0.00	37.90	45.70	74.00	-28.30	Horizontal
9848.000	-24.20	37.30	0.00	33.80	46.90	74.00	-27.10	Horizontal
12645.000	-23.10	38.10	0.00	34.20	49.20	74.00	-24.80	Horizontal

Test mode:	80	2.11n(HT40)	Test ch	annel:	el: 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)	Polarization
3555.000	-31.30	32.30	0.00	41.60	42.60	74.00	-31.40	Vertical
4844.000	-30.40	34.40	0.00	38.40	42.40	74.00	-31.60	Vertical
5985.000	-28.90	34.80	0.00	38.30	44.20	74.00	-29.80	Vertical
7266.000	-27.90	35.70	0.00	37.40	45.20	74.00	-28.80	Vertical
9688.000	-25.00	37.20	0.00	35.10	47.30	74.00	-26.70	Vertical
12630.000	-23.00	38.10	0.00	34.20	49.30	74.00	-24.70	Vertical
3555.000	-31.30	32.30	0.00	52.80	53.80	74.00	-20.20	Horizontal
4844.000	-30.40	34.40	0.00	41.80	45.80	74.00	-28.20	Horizontal
5955.000	-29.00	34.70	0.00	41.80	47.50	74.00	-26.50	Horizontal
7266.000	-27.90	35.70	0.00	37.90	45.70	74.00	-28.30	Horizontal
9688.000	-25.00	37.20	0.00	34.40	46.60	74.00	-27.40	Horizontal
12630.000	-23.00	38.10	0.00	34.50	49.60	74.00	-24.40	Horizontal



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Test mode:		802.	.11n(HT40)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cal Lo: (dl	ss	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3555.000	-31	.30	32.30	0.00	46.00	47.00	74.00	-27.00	Vertical
4874.000	-30	.40	34.50	0.00	39.70	43.80	74.00	-30.20	Vertical
5805.000	-29	.20	34.30	0.00	39.60	44.70	74.00	-29.30	Vertical
7311.000	-27	.90	35.70	0.00	37.00	44.80	74.00	-29.20	Vertical
9748.000	-25	.00	37.30	0.00	35.50	47.80	74.00	-26.20	Vertical
12645.000	-23	.10	38.10	0.00	34.80	49.80	74.00	-24.20	Vertical
3555.000	-31	.30	32.30	0.00	52.10	53.10	74.00	-20.90	Horizontal
4874.000	-30	.40	34.50	0.00	40.80	44.90	74.00	-29.10	Horizontal
5940.000	-29	.00	34.70	0.00	39.40	45.10	74.00	-28.90	Horizontal
7311.000	-27	.90	35.70	0.00	37.70	45.50	74.00	-28.50	Horizontal
9748.000	-25	.00	37.30	0.00	35.10	47.40	74.00	-26.60	Horizontal
12645.000	-23	.10	38.10	0.00	34.10	49.10	74.00	-24.90	Horizontal

Test mode:	802	2.11n(HT40)	Test ch	annel:	nnel: 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
3555.000	-31.30	32.30	0.00	41.80	42.80	74.00	-31.20	Vertical
4904.000	-30.30	34.60	0.00	38.40	42.70	74.00	-31.30	Vertical
5940.000	-29.00	34.70	0.00	38.50	44.20	74.00	-29.80	Vertical
7356.000	-27.90	35.60	0.00	36.90	44.60	74.00	-29.40	Vertical
9808.000	-24.50	37.30	0.00	34.30	47.10	74.00	-26.90	Vertical
12510.000	-23.00	38.00	0.00	34.30	49.30	74.00	-24.70	Vertical
3555.000	-31.30	32.30	0.00	52.10	53.10	74.00	-20.90	Horizontal
4904.000	-30.30	34.60	0.00	40.60	44.90	74.00	-29.10	Horizontal
5940.000	-29.00	34.70	0.00	39.70	45.40	74.00	-28.60	Horizontal
7356.000	-27.90	35.60	0.00	37.60	45.30	74.00	-28.70	Horizontal
9808.000	-24.50	37.30	0.00	35.00	47.80	74.00	-26.20	Horizontal
12630.000	-23.00	38.10	0.00	34.50	49.60	74.00	-24.40	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.

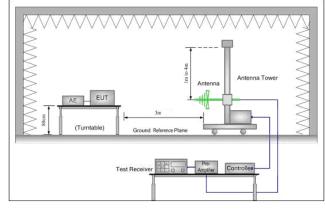


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	5.209 and 15.205							
Test Method:	ANSI C63.10 2009	NSI C63.10 2009							
Test Site:	Measurement Distance: 3m	leasurement 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						
	74.0 Peak Value								
Test Setup:									



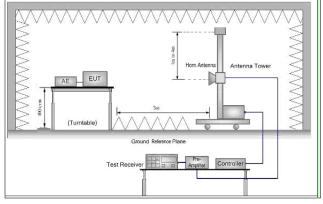


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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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 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. 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: Pretest the EUT at Transmitting 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) only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details Test Results: Pass		
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. 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: Pretest the EUT at Transmitting mode Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT20) 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. 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: Pretest the EUT at Transmitting 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.		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. 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: Pretest the EUT at Transmitting 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		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. 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: Pretest the EUT at Transmitting 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		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. 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: Pretest the EUT at Transmitting 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		•
h. 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: Pretest the EUT at Transmitting 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		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode Final Test Mode: Pretest the EUT at Transmitting 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
Transmitting mode Pretest the EUT at Transmitting 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		• •
Final Test Mode: Pretest the EUT at Transmitting 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	Exploratory 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) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		Transmitting mode
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	Final Test Mode:	Pretest the EUT at Transmitting mode
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		Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		
Instruments Used: Refer to section 5.10 for details		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.
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details
	Test Results:	Pass

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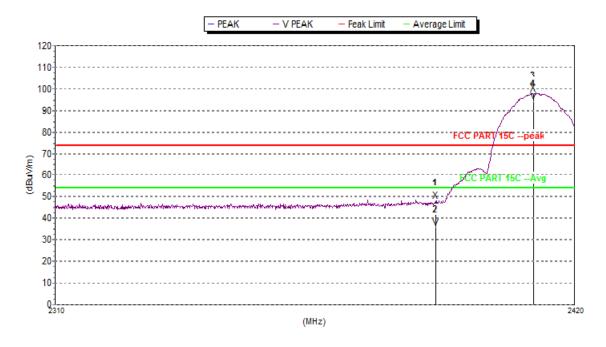


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Test plot as follows:

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



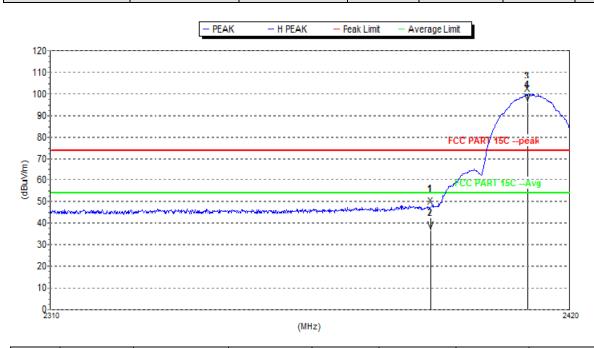
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	48.2	74.0	25.8	32.5	0.0	-19.3	V
3	2410.980	98.1	74.0	-24.1	32.6	0.0	-19.3	V
Avg								
2	2390	35.6	54.0	18.4	32.5	0.0	-19.3	V
4	2410.980	94.3	54.0	-40.3	32.6	0.0	-19.3	٧



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



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	47.8	74.0	26.2	32.5	0.0	-19.3	Н
3 F	2410.870	99.8	74.0	-25.8	32.6	0.0	-19.3	Н
Avg								
2	2390	36.4	54.0	17.6	32.5	0.0	-19.3	Н
4 F	2410.870	95.9	54.0	-41.9	32.6	0.0	-19.3	Н

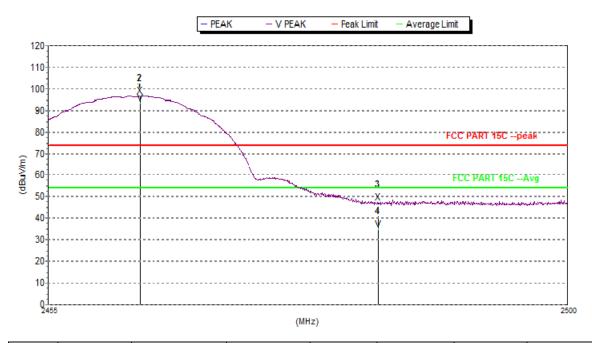




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Worse case mode: 802.11b Test channel: Lowest Remark: Average Vertical



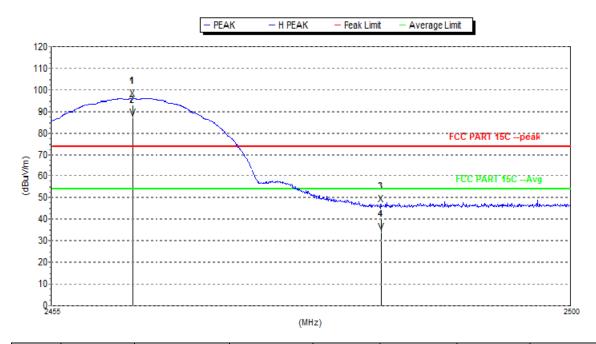
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
2	2462.920	96.8	74.0	-22.8	32.5	0.0	-19.2	V
3 F	2483.5	47.3	74.0	26.7	32.5	0.0	-19.1	V
Avg								
1	2462.920	93.5	54.0	-39.5	32.5	0.0	-19.2	V
4 F	2483.5	34.8	54.0	19.2	32.5	0.0	-19.1	V



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



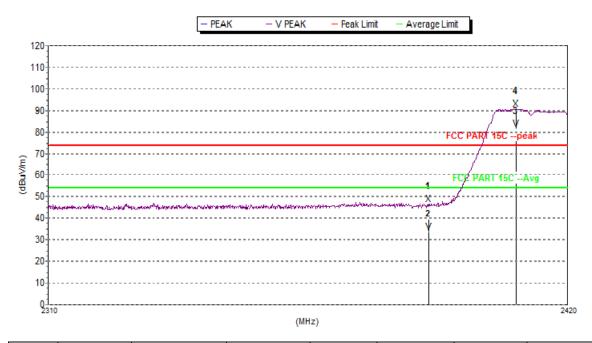
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2462.020	96.1	74.0	-22.1	32.5	0.0	-19.2	Н
3 F	2483.5	47.1	74.0	26.9	32.5	0.0	-19.1	Н
Avg								
2	2462.020	87.2	54.0	-33.2	32.5	0.0	-19.2	Н
4 F	2483.5	34.2	54.0	19.8	32.5	0.0	-19.1	Н



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



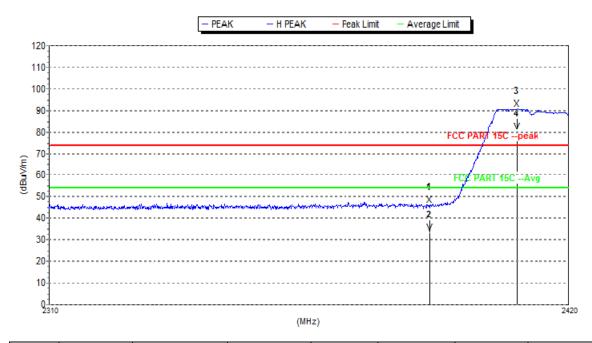
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.6	74.0	27.4	32.5	0.0	-19.3	V
4 F	2408.780	90.6	74.0	-16.6	32.6	0.0	-19.3	V
Avg								
2	2390	33.6	54.0	20.4	32.5	0.0	-19.3	V
3 F	2408.780	81.3	54.0	-27.3	32.6	0.0	-19.3	V



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



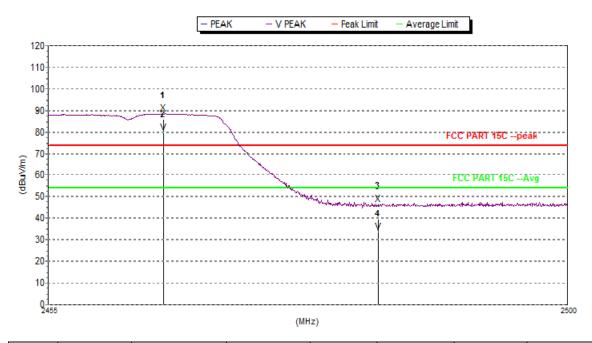
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.3	74.0	27.7	32.5	0.0	-19.3	Н
3 F	2408.890	90.7	74.0	-16.7	32.6	0.0	-19.3	Н
Avg								
2	2390	33.5	54.0	20.5	32.5	0.0	-19.3	Н
4 F	2408.890	80.4	54.0	-26.4	32.6	0.0	-19.3	Н



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



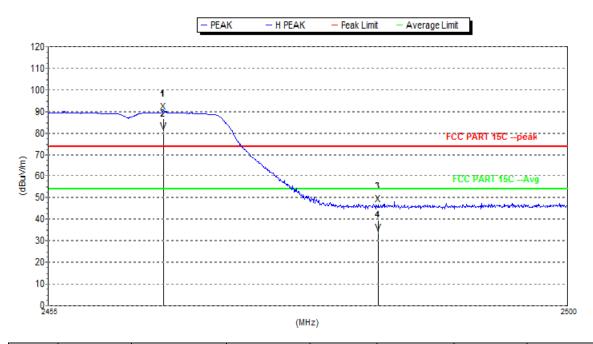
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2464.945	88.5	74.0	-14.5	32.5	0.0	-19.2	V
3 F	2483.5	46.4	74.0	27.6	32.5	0.0	-19.1	V
Avg								
2	2464.945	80.0	54.0	-26.0	32.5	0.0	-19.2	V
4 F	2483.5	33.7	54.0	20.3	32.5	0.0	-19.1	V



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



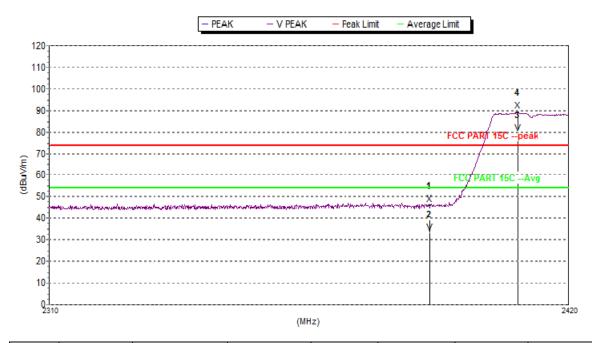
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2464.990	89.8	74.0	-15.8	32.5	0.0	-19.2	Н
3 F	2483.5	46.9	74.0	27.1	32.5	0.0	-19.2	Н
Avg								
2	2464.990	80.7	54.0	-26.7	32.5	0.0	-19.2	Н
4 F	2483.5	33.8	54.0	20.2	32.5	0.0	-19.1	Н



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Worse case mode: 802.11n(20) Test channel: Highest Remark: Average Vertical



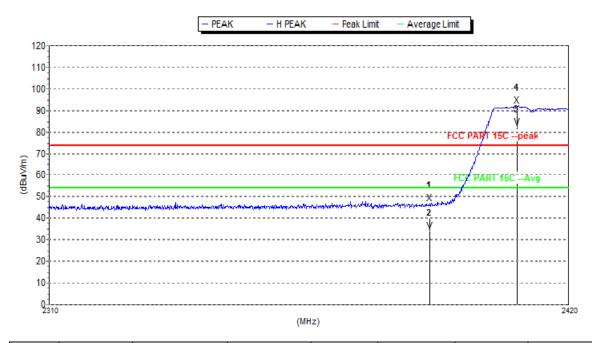
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.4	74.0	27.6	32.5	0.0	-19.3	V
4 F	2409.000	89.8	74.0	-15.8	32.6	0.0	-19.3	V
Avg								
2	2390	33.2	54.0	20.8	32.5	0.0	-19.3	V
3 F	2409.000	79.3	54.0	-25.3	32.6	0.0	-19.3	V



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Worse case mode: 802.11n(20) Test channel: Highest Remark: Average Horizontal



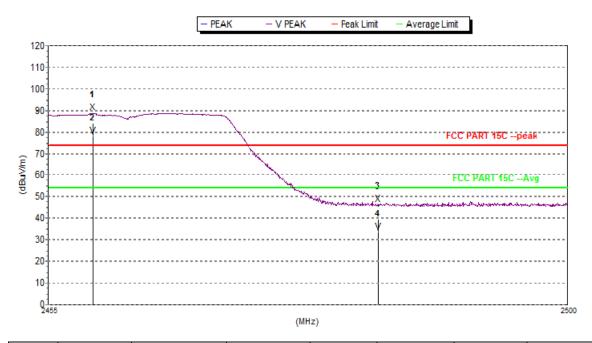
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	47.0	74.0	27.0	32.5	0.0	-19.3	Н
4 F	2408.890	92.5	74.0	-18.5	32.6	0.0	-19.3	Н
Avg								
2	2390	34.0	54.0	20.0	32.5	0.0	-19.3	Н
3 F	2408.890	82.1	54.0	-28.1	32.6	0.0	-19.3	Н



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Worse case mode: 802.11n(20) Test channel: Highest Remark: Average Vertical



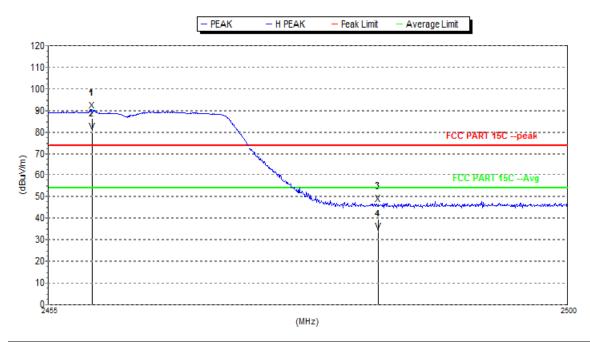
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2458.870	88.9	74.0	-14.9	32.5	0.0	-19.2	V
3 F	2483.5	46.7	74.0	27.3	32.5	0.0	-19.1	V
Avg								
2	2458.870	78.3	54.0	-24.3	32.5	0.0	-19.2	V
4 F	2483.5	33.8	54.0	20.2	32.5	0.0	-19.1	V



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Worse case mode: 802.11n(20) Test channel: Highest Remark: Average Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2458.825	90.0	74.0	-16.0	32.5	0.0	-19.2	Н
3 F	2483.5	46.6	74.0	27.4	32.5	0.0	-19.2	Н
Avg								
2	2458.825	80.1	54.0	-26.1	32.5	0.0	-19.2	Н
4 F	2483.5	33.9	54.0	20.1	32.5	0.0	-19.1	Н

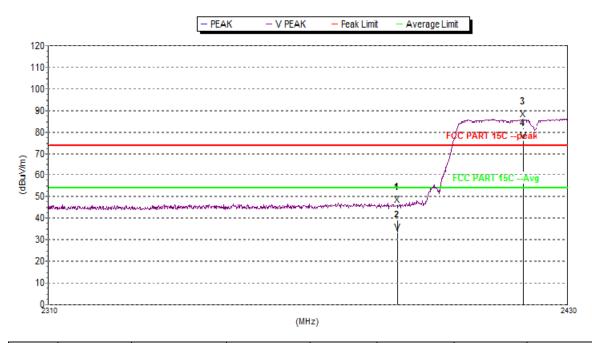




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Worse case mode: 802.11n(40) Test channel: Highest Remark: Average Vertical



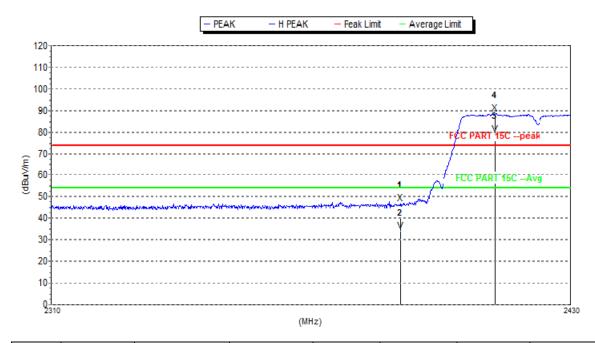
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.3	74.0	27.7	32.5	0.0	-19.3	V
3 F	2419.560	86.0	74.0	-12.0	32.5	0.0	-19.3	V
Avg								
2	2390	33.4	54.0	20.6	32.5	0.0	-19.3	V
4 F	2419.560	76.0	54.0	-22.0	32.5	0.0	-19.4	V



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Worse case mode: 802.11n(40) Test channel: Highest Remark: Average Horizontal



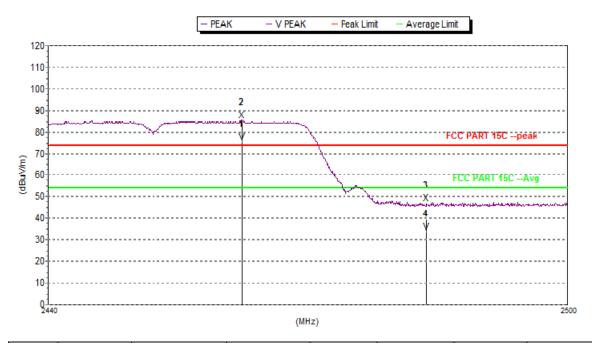
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	47.0	74.0	27.0	32.5	0.0	-19.3	Н
4 F	2412.240	88.6	74.0	-14.6	32.6	0.0	-19.3	Н
Avg								
2	2390	34.2	54.0	19.8	32.5	0.0	-19.3	Н
3 F	2412.240	79.0	54.0	-25.0	32.6	0.0	-19.3	Н



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Worse case mode: 802.11n(40) Test channel: Highest Remark: Average Vertical



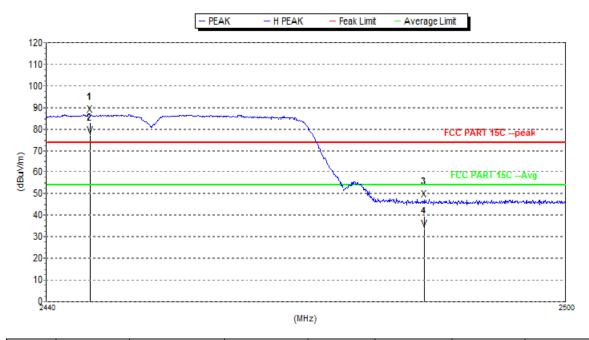
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
2	2462.260	85.5	74.0	-11.5	32.5	0.0	-19.2	V
3 F	2483.5	47.0	74.0	27.0	32.5	0.0	-19.1	V
Avg								
1	2462.260	75.4	54.0	-21.4	32.5	0.0	-19.2	V
4 F	2483.5	33.8	54.0	20.2	32.5	0.0	-19.1	V



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Worse case mode: 802.11n(40) Test channel: Highest Remark: Average Horizontal



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2445.040	86.7	74.0	-12.7	32.5	0.0	-19.3	Н
3 F	2483.5	47.2	74.0	26.8	32.5	0.0	-19.3	Н
Avg								
2	2445.040	77.1	54.0	-23.1	32.5	0.0	-19.3	Н
4 F	2483.5	33.7	54.0	20.3	32.5	0.0	-19.1	Н

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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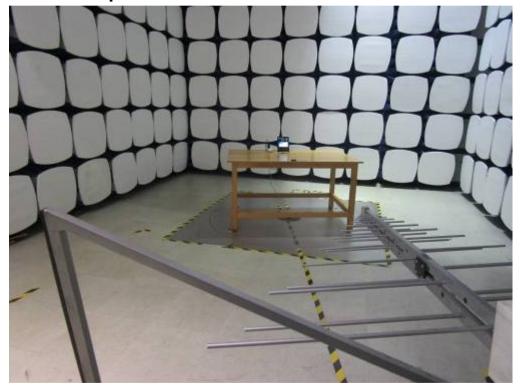
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7 Photographs - EUT Test Setup

Test model No.: W08D

7.1 Radiated Spurious Emission



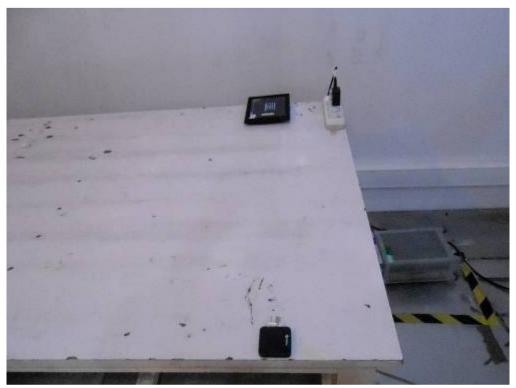


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7.2 Conducted Emission





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8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1509005813CR.