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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM150500243201

Email: ee.shenzhen@sgs.com Page: 1 of 125

FCC REPORT

Application No: SZEM1505002432CR

Applicant: LONGSYS ELECTRONICS (HK) CO., LTD

Manufacturer/ Factory: Shenzhen Longsys electronics co Ltd

Product Name: Wifi Module Model No.(EUT): WK1230

FCC ID: 2ADPDWK1230

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

Date of Receipt: 2015-05-08

Date of Test: 2015-05-15 2015-05-28

Date of Issue: 2015-06-08

Test Result: PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

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

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

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2 Version

Revision Record						
Version Chapter Date Modifier Remark						
00		2015-06-08		Original		

Authorized for issue by:		
Tested By	Exic Fu	2015-05-28
	(Eric Fu) /Project Engineer	Date
Prepared By	Jarole Chen	2015-06-08
	(Jade Chen) /Clerk	Date
Checked By	Owen 2hon	2015-06-08
	(Owen Zhou) /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)	KDB558074 D01 v03r02	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r02	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r02	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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5 General Information

5.1 Client Information

Applicant:	LONGSYS ELECTRONICS (HK) CO., LTD					
Address of Applicant:	10/F china aerospace ctr 143 hoi bun rd kwun tong kln hong kong					
Manufacturer:	Shenzhen Longsys electronics co Ltd					
Address of Manufacturer:	8/F.1 Building, Financial Base,No.8,kefa Road, High-Tech Park, Shenzhen, China					
Factory:	Shenzhen Longsys electronics co Ltd					
Address of Factory:	8/F.1 Building, Financial Base,No.8,kefa Road, High-Tech Park, Shenzhen, China					

5.2 General Description of EUT

Product Name:	Wifi Module		
Model No.:	WK1230		
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz		
	IEEE 802.11n(HT40): 2422MHz to 2452MHz		
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels		
	IEEE 802.11n HT40: 7 Channels		
Channel Separation:	5MHz		
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)		
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,		
	QPSK,BPSK)		
Sample Type:	Mobile production		
Test Software of EUT:	Artgui.exe		
Antenna Type and Gain:	Type: Integral		
	Gain: 3dBi		
Power Supply:	DC 3.3V		

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Operation Frequency each of channel(802.11b/g/n HT20)									
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Channel	Frequency
1	24	412MHz	4	2427MHz	7	24	12MHz 10		2457MHz
2	24	417MHz	5	2432MHz	8	24	47MHz	11	2462MHz
3	24	422MHz	6	2437MHz	9	24	52MHz		
Operation F	requ	ency each	of channe	el(802.11n HT40)	l				
Channe	Channel Frequ		ency	Channel	Frequen	су	Chan	nel	Frequency
1		24221	MHz	4	2437MF	2437MHz			2452MHz
2		2427	MHz	5	2442MF	lz			
3		2432	MHz	6	2447MH	lz			

Note:

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

For 802.11b/g/n (HT20):

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

For 802.11n (HT40):

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



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5.3 Test Environment and Mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	52 % RH				
Atmospheric Pressure:	1005 mbar				
Test mode:					
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all				
	kind of data rate.				

5.4 Description of Support Units

The EUT has been tested 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.

SGS

SGS-CSTC Standards Technical Services Ltd.

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5.6 Test Facility

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

CNAS (No. CNAS L2929)

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

VCCI

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

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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5.10 Equipment List

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



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

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

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



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6 Test results and Measurement Data

6.1 Antenna Requirement

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

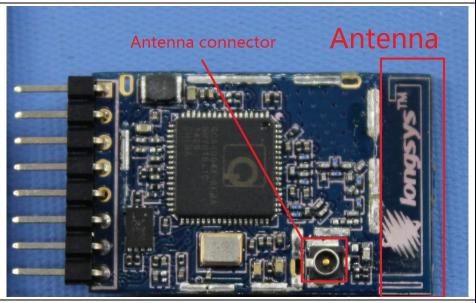
15.203 requirement:

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 PCB antenna are integrated on the main PCB and no consideration of replacement. The best case gain of the PCB antenna is 3dBi. (The antenna connector is design for test used, not for external antenna)

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6.2 Conducted Emissions

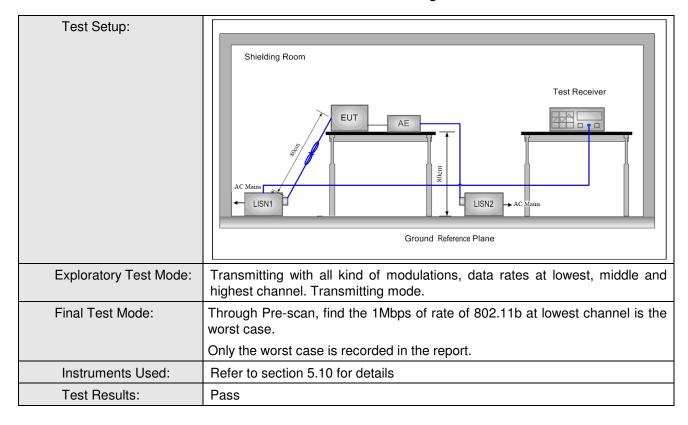
Test Requirement:	47 CFR Part 15C Section 15.2	207		
Test Method:	ANSI C63.10: 2009			
Test Frequency Range:	150kHz to 30MHz			
Limit:	Francisco (MIII-)	Limit (c	dBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	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 between the closest points the EUT and associated experience to find the maximule equipment and all of the in ANSI C63.10: 2009 on corrected. 	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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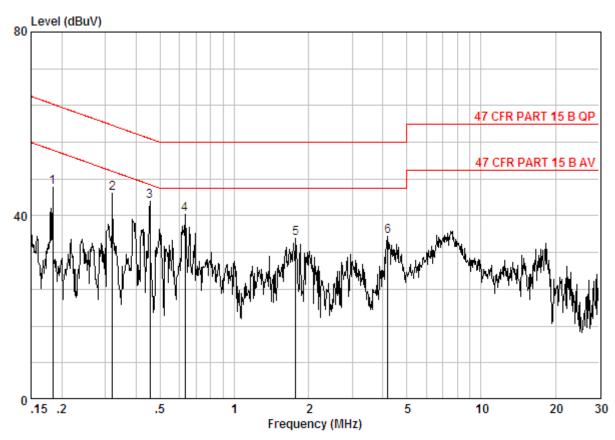
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Measurement Data

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 PART 15 B AV CE LINE

Job No. : 2432CR

	Freq		LISN Factor					Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18346							
2 @ 3 @	0.31999 0.45395		9.85 9.86					
4 5	0.63048 1.772		9.87 9.94					
6	4.180	0.01	10.09	25.33	35.44	46.00	-10.56	Peak

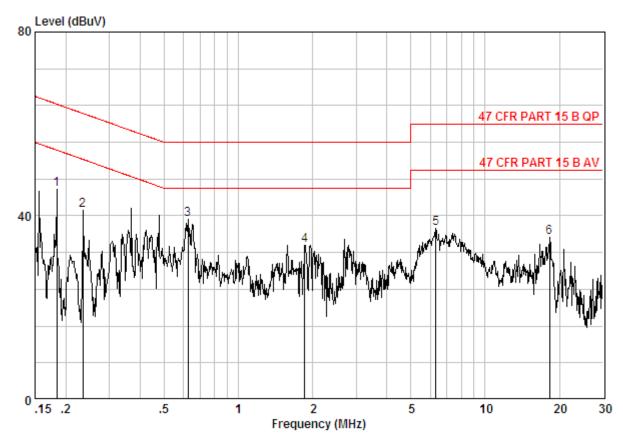
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B AV CE NEUTRAL

Job No. : 2432CR

	Freq		LISN Factor					Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18346	0.02	9.83	36.00	45.85	54.33	-8.48	Peak
2	0.23409	0.02	9.86	31.37	41.24	52.30	-11.06	Peak
3	0.62383	0.02	9.93	29.34	39.29	46.00	-6.71	Peak
4	1.858	0.02	10.11	23.50	33.63	46.00	-12.37	Peak
5	6.319	0.01	10.13	27.15	37.29	50.00	-12.71	Peak
6	18.232	0.02	10.33	25.06	35.41	50.00	-14.59	Peak

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EL

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:	KDB558074 D01 v03r02
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 und	der all rate at	lowest cha	annel 1					
Mode		802	.11b			_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	20.06	20.01	19.78	18.96				
Mode		-	-	802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	22.62	22.48	22.22	22.01	21.85	21.60	21.52	20.88
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	20.09	19.88	19.65	19.34	19.12	18.89	18.60	17.98
Mode				802.11	n(HT40)			
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	20.35	20.12	19.89	19.56	19.33	19.12	18.87	18.01

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

Wicasarcine it Bata	802.11b mo	de	
Toot shannel			Decult
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.06	30.00	Pass
Middle	20.18	30.00	Pass
Highest	20.81	30.00	Pass
	802.11g mo	de	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	22.62	30.00	Pass
Middle	22.95	30.00	Pass
Highest	23.21	30.00	Pass
	802.11n(HT20)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.09	30.00	Pass
Middle	20.91	30.00	Pass
Highest	21.23	30.00	Pass
	802.11n(HT40)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.35	30.00	Pass
Middle	21.25	30.00	Pass
Highest	21.04	30.00	Pass



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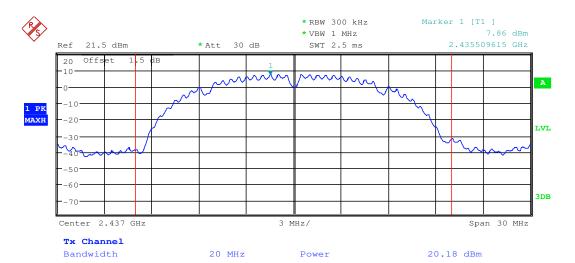
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode: 802.11b Test channel: Middle



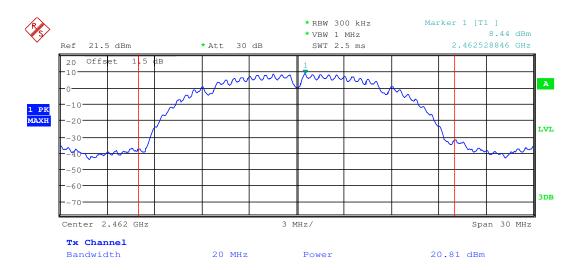
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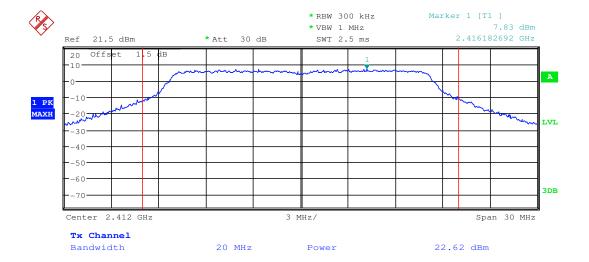
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Test mode: 802.11b Test channel: Highest



Test mode:	802.11g	Test channel:	Lowest	
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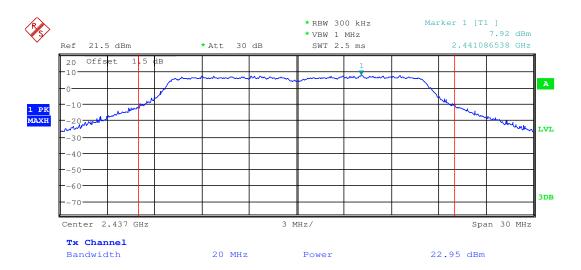
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Test mode: 802.11g Test channel: Middle



Test mode:	802.11g	Test channel:	Highest
	3		9



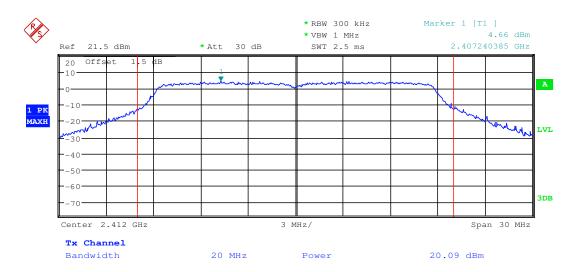
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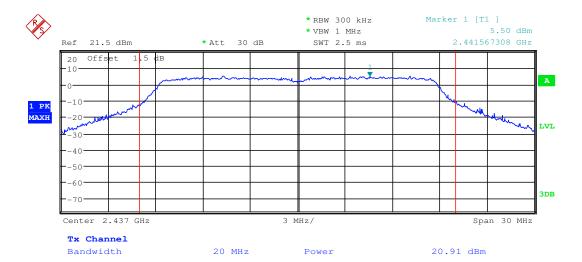
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Test mode: 802.11n(HT20) Test channel: Lowest



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



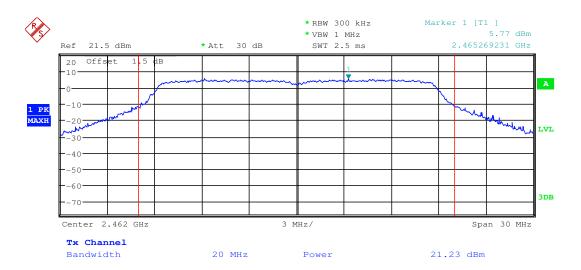
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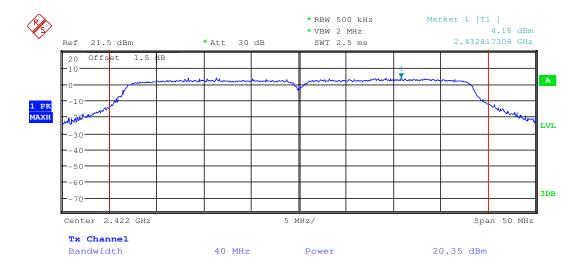
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Test mode: 802.11n(HT20) Test channel: Highest



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



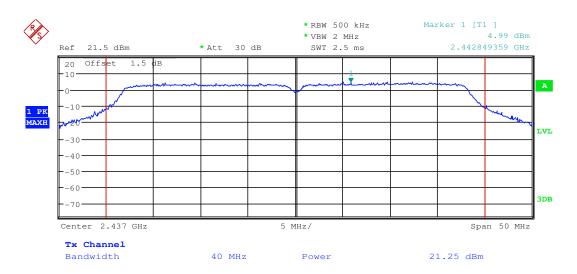
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Test mode: 802.11n(HT40) Test channel: Middle



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



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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)		
Test Method:	KDB558074 D01 v03r02		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Instruments Used:	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:	≥ 500 kHz		
Test Results:	Pass		



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Measurement Data

802.11b mode					
6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
10.192	≥500	Pass			
10.192	≥500	Pass			
10.192	≥500	Pass			
Highest 10.192 ≥500 Pass 802.11g mode					
6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
16.442	≥500	Pass			
16.442	≥500	Pass			
16.442	≥500	Pass			
Highest 16.442 ≥500 Pass 802.11n(HT20) mode					
6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
17.596	≥500	Pass			
17.692	≥500	Pass			
17.692	≥500	Pass			
Highest 17.692 ≥500 Pass 802.11n(HT40)mode					
6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
36.138	≥500	Pass			
36.538	≥500	Pass			
36.298	≥500	Pass			
	6dB Occupy Bandwidth (MHz) 10.192 10.192 802.11g mode 6dB Occupy Bandwidth (MHz) 16.442 16.442 16.442 802.11n(HT20) mode 6dB Occupy Bandwidth (MHz) 17.596 17.692 17.692 802.11n(HT40)mode 6dB Occupy Bandwidth (MHz) 36.138 36.538	6dB Occupy Bandwidth (MHz) Limit (kHz) 10.192 ≥500 10.192 ≥500 802.11g mode 6dB Occupy Bandwidth (MHz) Limit (kHz) 16.442 ≥500 16.442 ≥500 802.11n(HT20) mode Eimit (kHz) 6dB Occupy Bandwidth (MHz) Limit (kHz) 17.596 ≥500 17.692 ≥500 802.11n(HT40)mode Eimit (kHz) 6dB Occupy Bandwidth (MHz) Limit (kHz) 36.138 ≥500 36.538 ≥500			

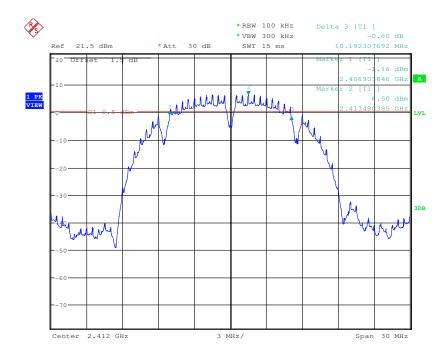


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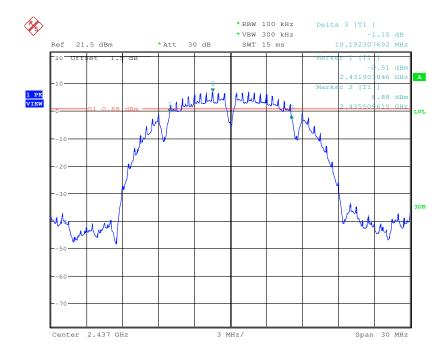
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



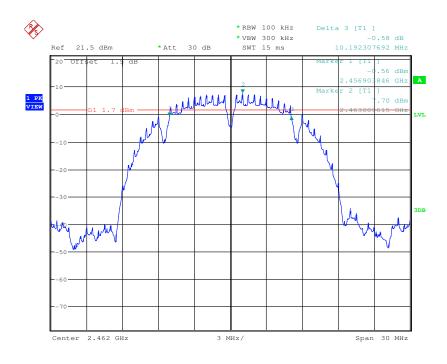
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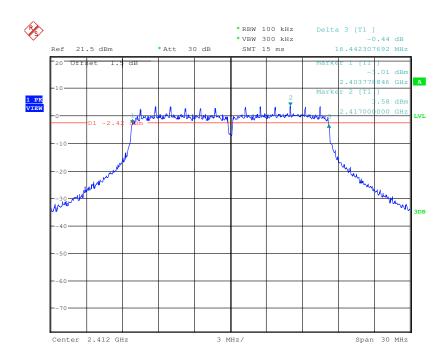
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



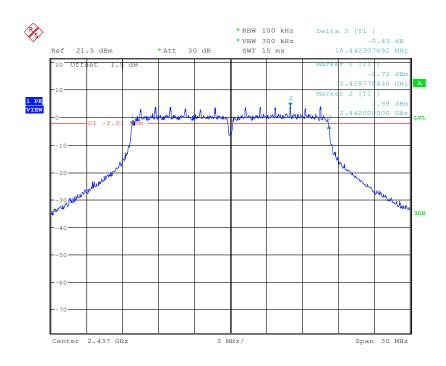
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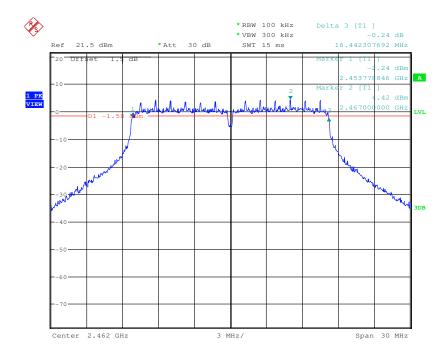
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Test mode: 802.11g Test channel: Middle







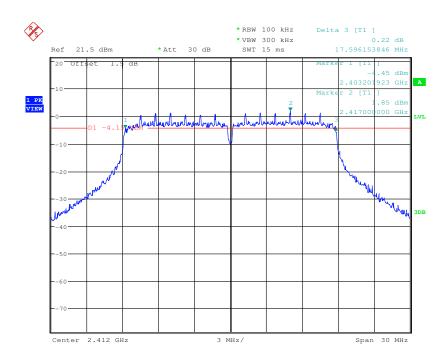
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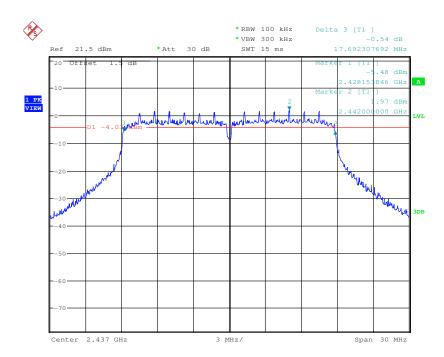
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Test mode: 802.11n(HT20) Test channel: Lowest



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



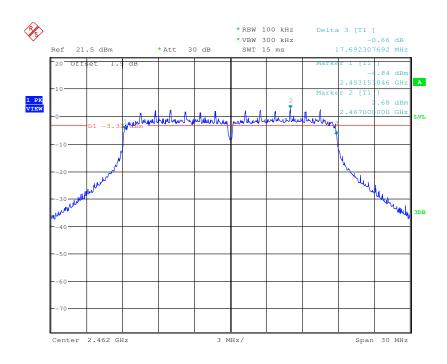
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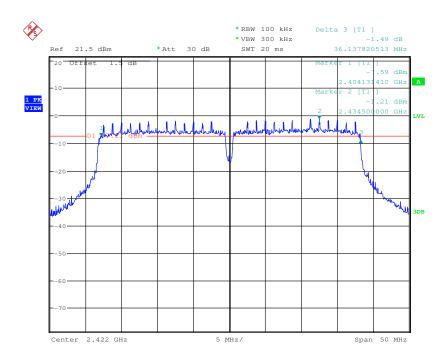
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Test mode: 802.11n(HT20) Test channel: Highest



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



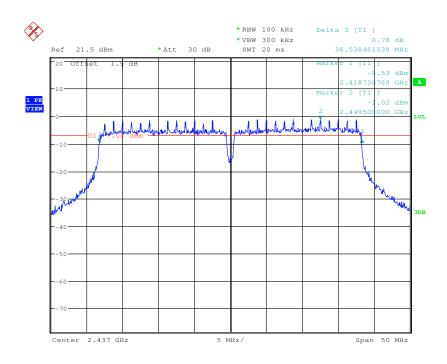
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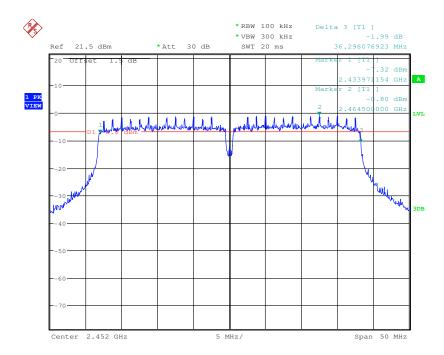
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Test mode: 802.11n(HT40) Test channel: Middle



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



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	KDB558074 D01 v03r02		
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

Weasurement Data					
802.11b mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-7.15	≤8.00	Pass		
Middle	-7.06	≤8.00	Pass		
Highest	-6.33	≤8.00	Pass		
802.11g mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-8.55	≤8.00	Pass		
Middle	-9.26	≤8.00	Pass		
Highest	-8.90	≤8.00	Pass		
802.11n(HT20) mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-11.96	≤8.00	Pass		
Middle	-11.14	≤8.00	Pass		
Highest	-11.32	≤8.00	Pass		
802.11n(HT40) mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-14.55	≤8.00	Pass		
Middle	-15.64	≤8.00	Pass		
Highest	-13.99	≤8.00	Pass		

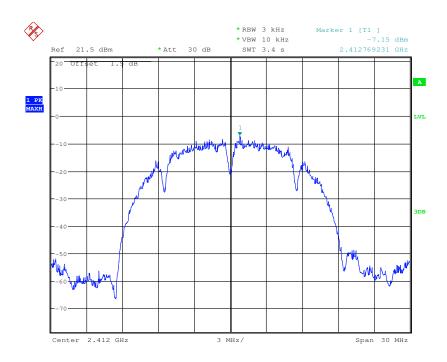


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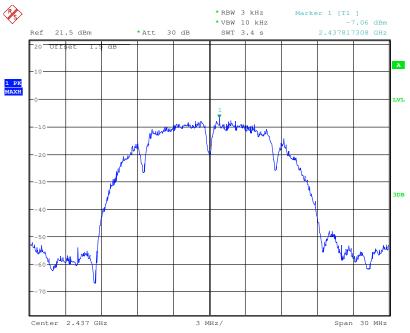
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle





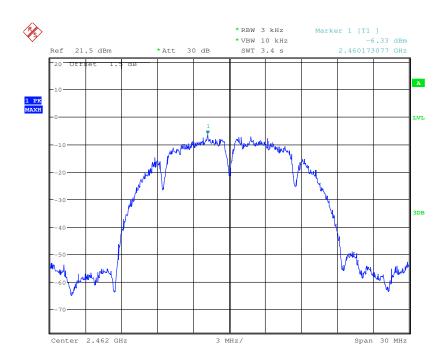
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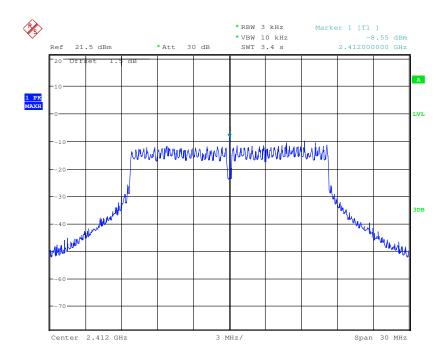
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Test mode: 802.11b Test channel: Highest



Test mode:	802.11g	Test channel:	Lowest
	00=9		_0001

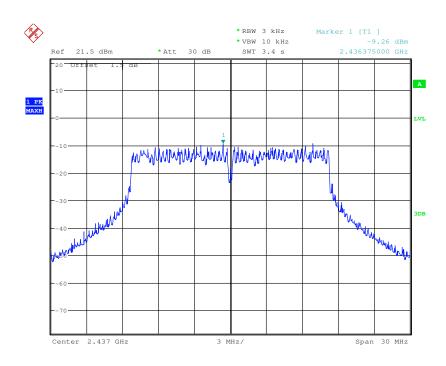




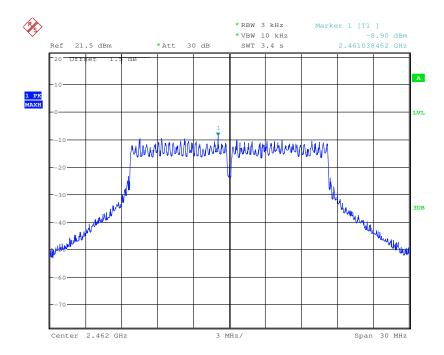
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

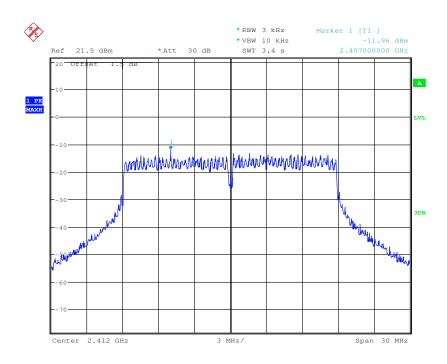




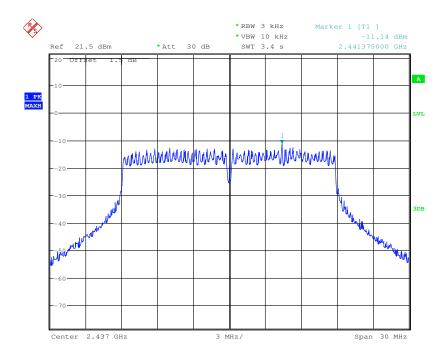
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Test mode: 802.11n(HT20) Test channel: Lowest



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

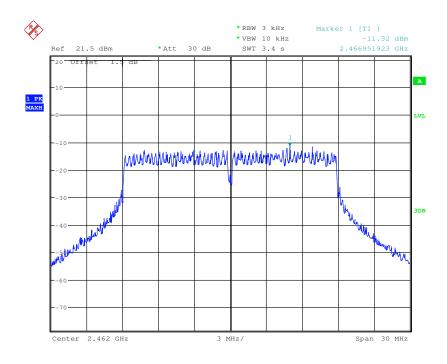




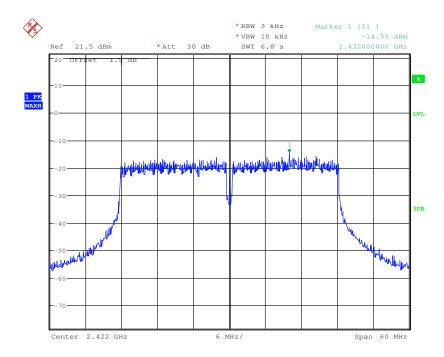
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Test mode: 802.11n(HT20) Test channel: Highest



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

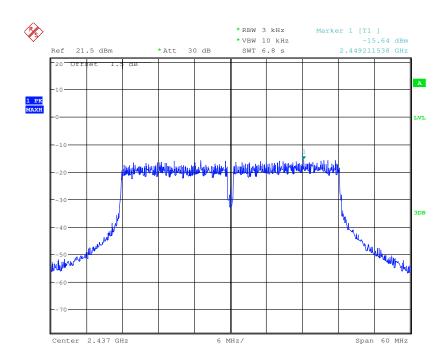




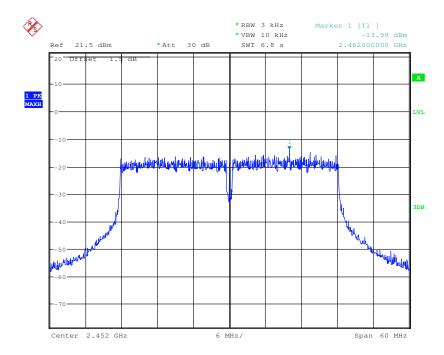
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Test mode: 802.11n(HT40) Test channel: Middle



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





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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	KDB558074 D01 v03r02	
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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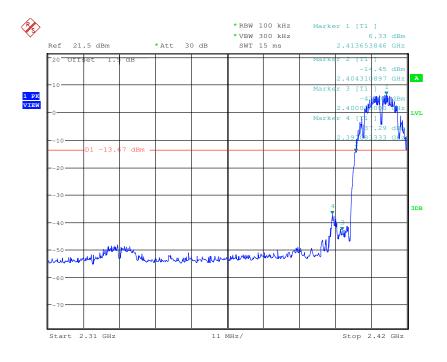


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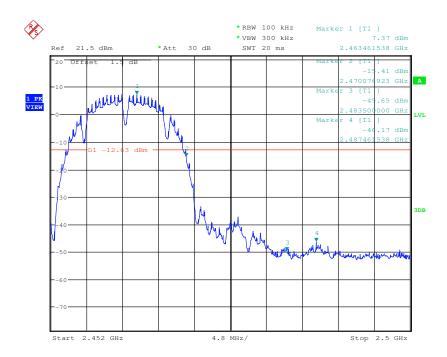
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





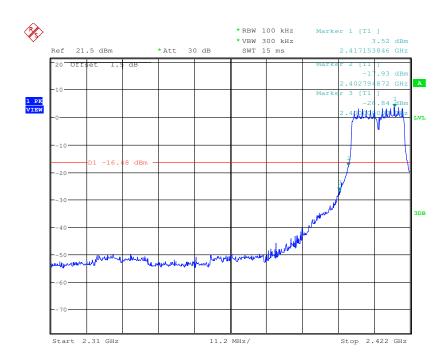




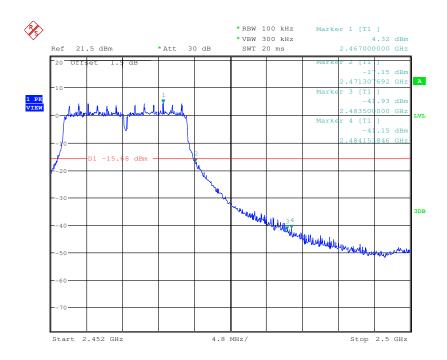
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Test mode: 802.11g Test channel: Lowest





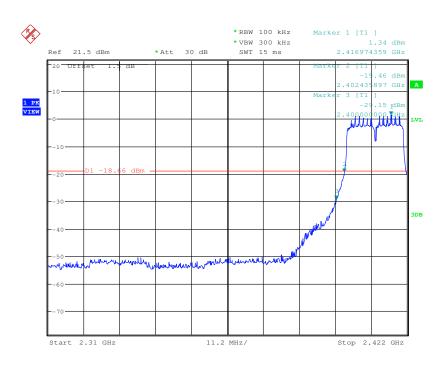




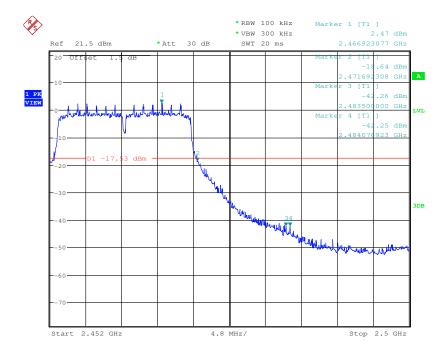
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Test mode: 802.11n(HT20) Test channel: Lowest





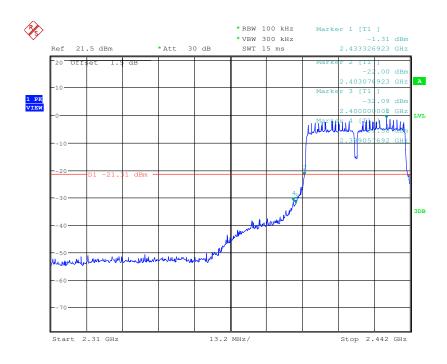




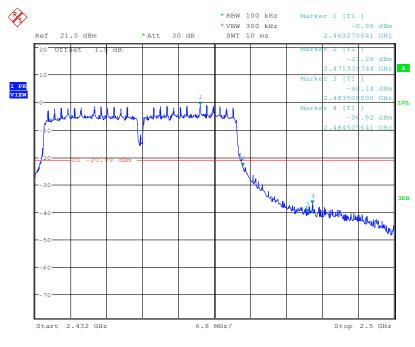
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Test mode: 802.11n(HT40) Test channel: Lowest



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







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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	KDB558074 D01 v03r02	
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:		
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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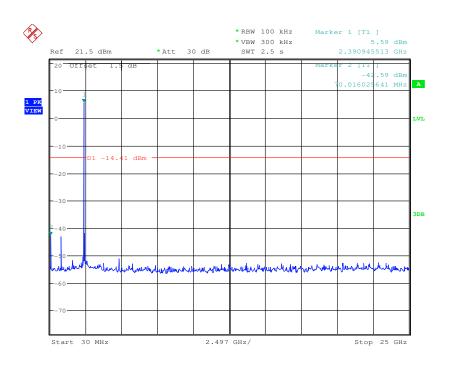


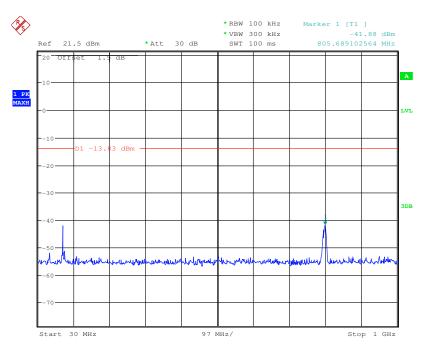
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

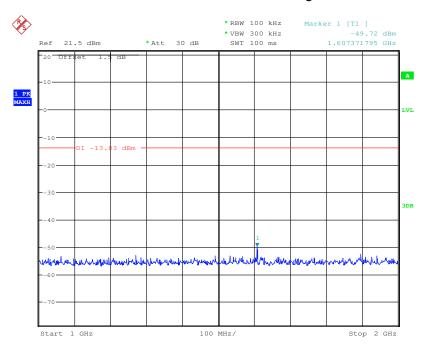


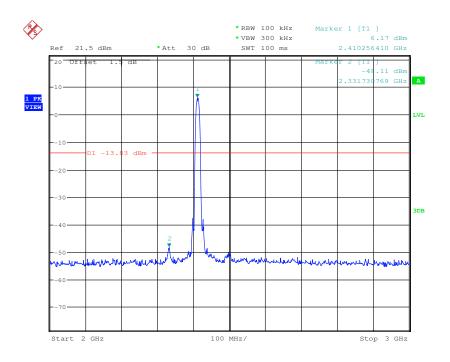




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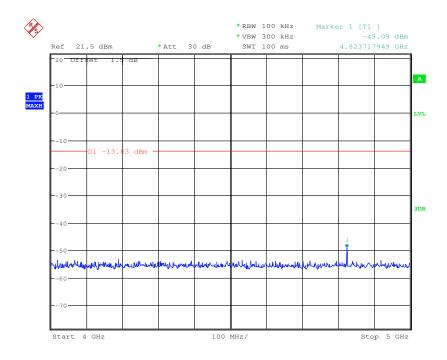




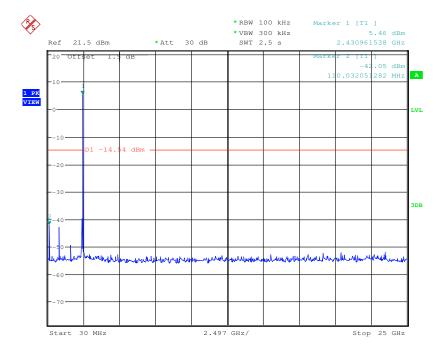


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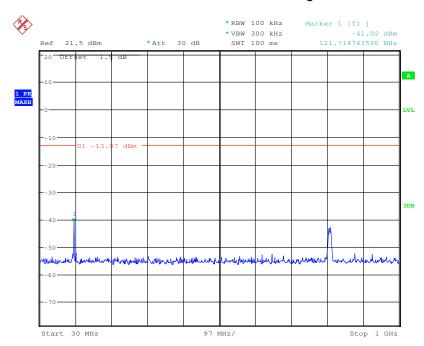
Test mode:	802.11b	Test channel:	Middle

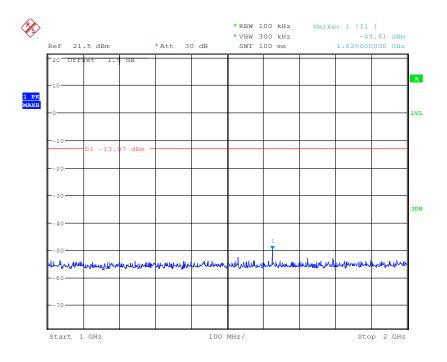




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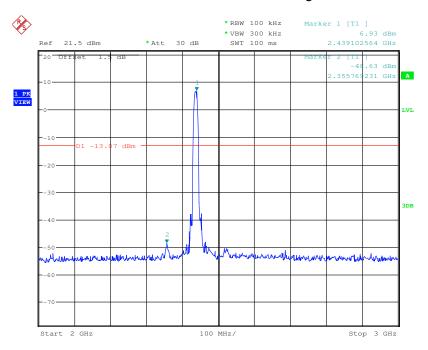


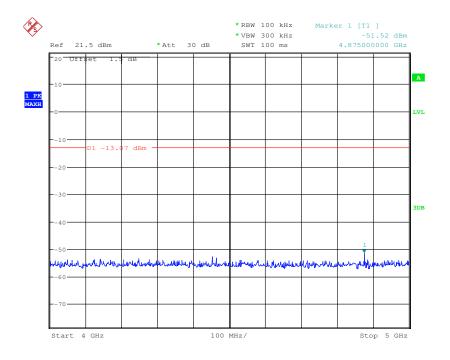
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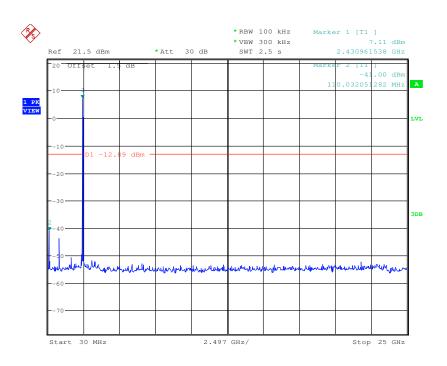
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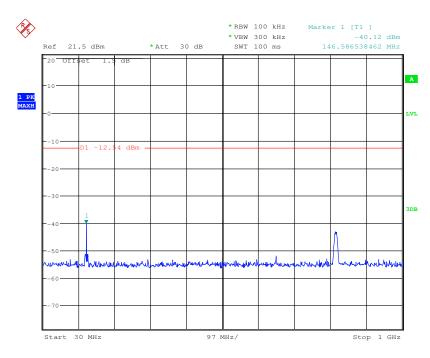


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Test mode: 802.11b Test channel: Highest

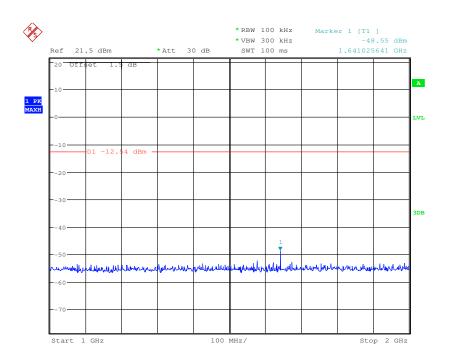


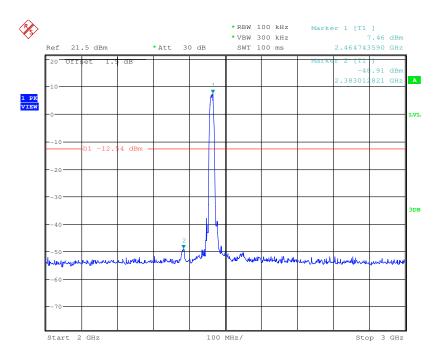




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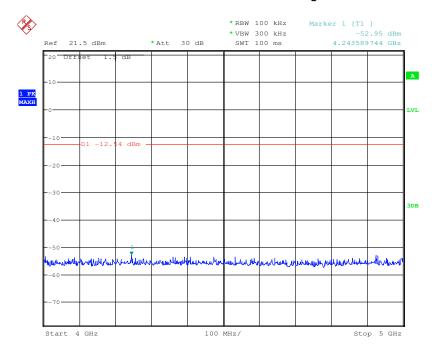


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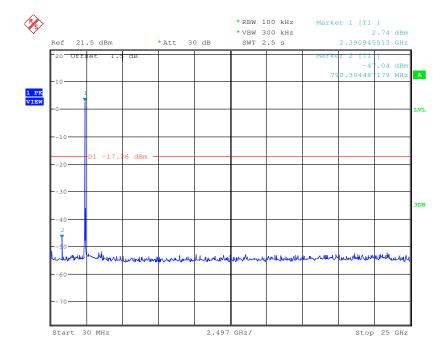


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Test mode:	802.11g	Test channel:	Lowest
	00=:::9		

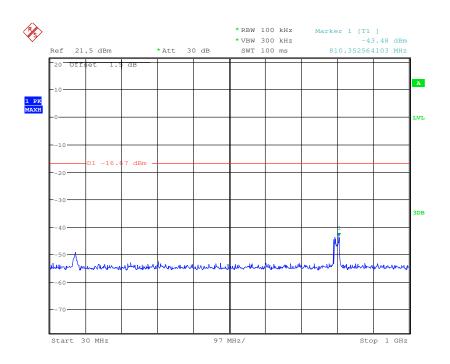


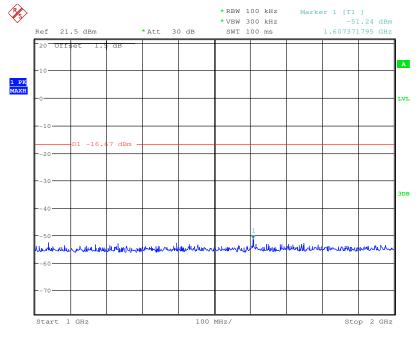
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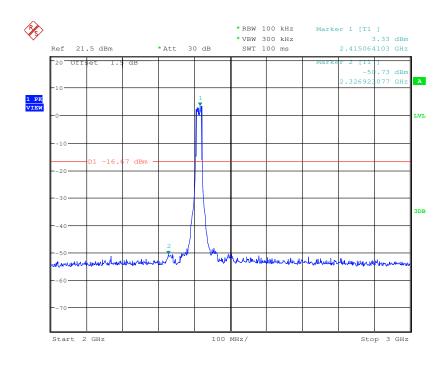


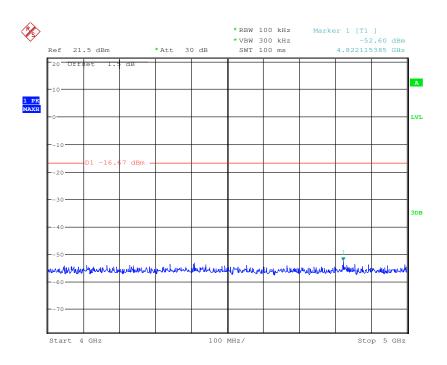




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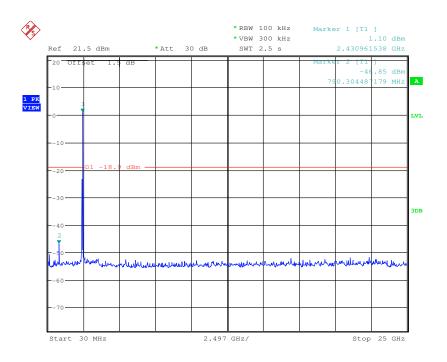


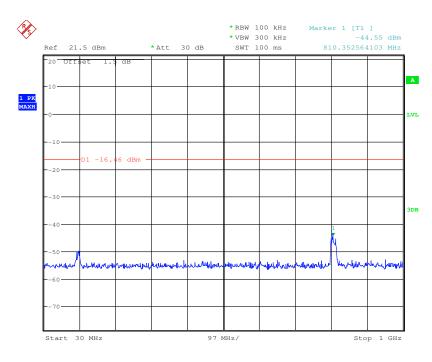


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Test mode: 802.11g Test channel: Middle



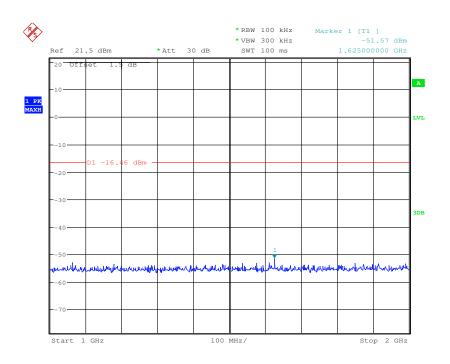


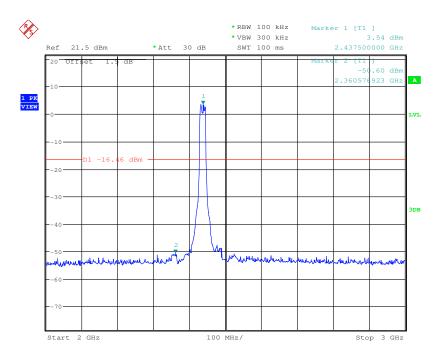
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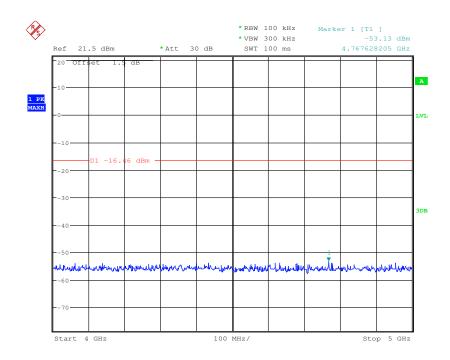


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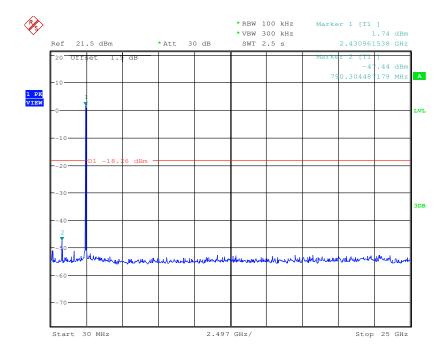


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Т	est mode:	802.11g	Test channel:	Highest	
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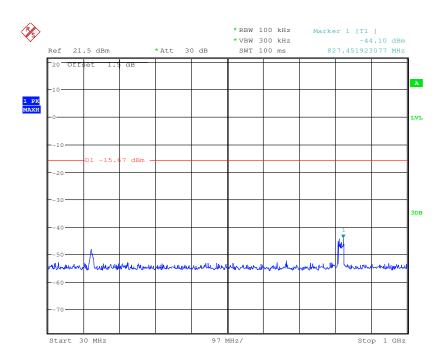


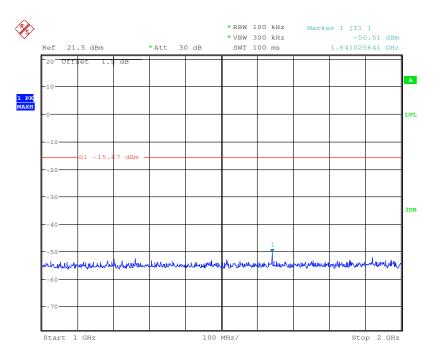
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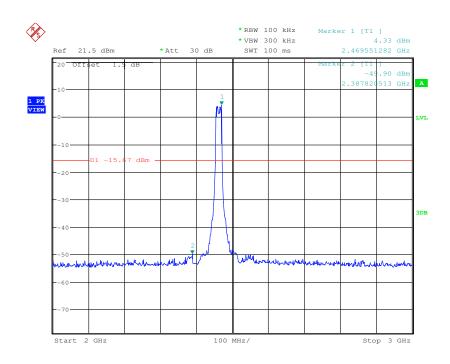


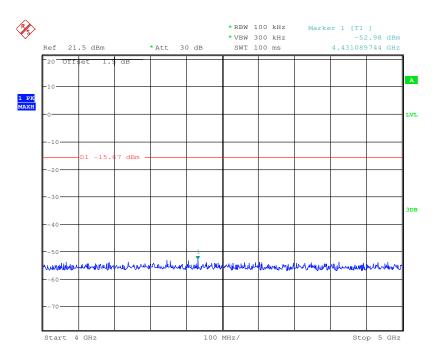
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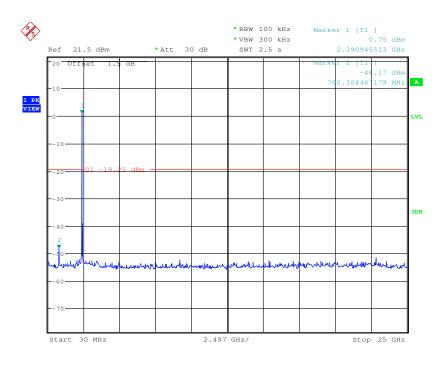
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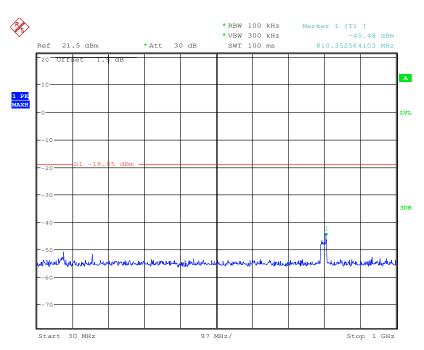


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Test mode: 802.11n(HT20) Test channel: Lowest



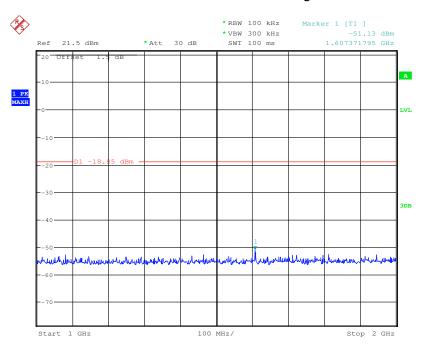


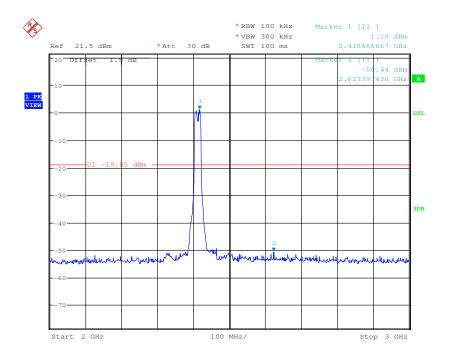
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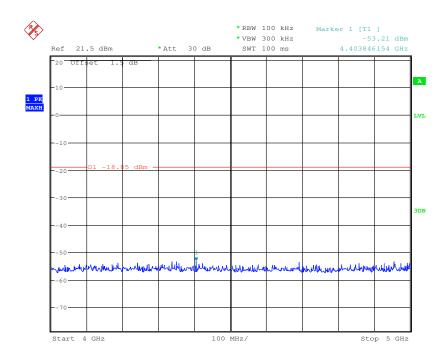


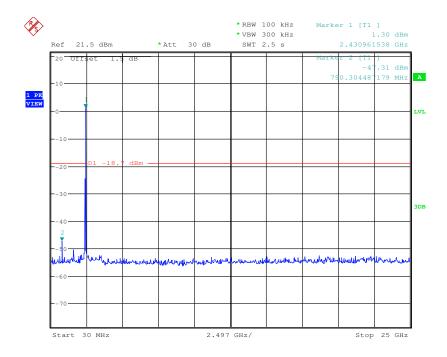
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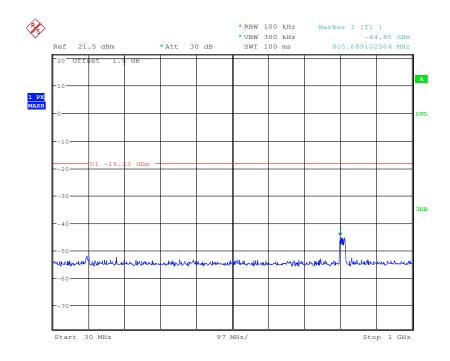


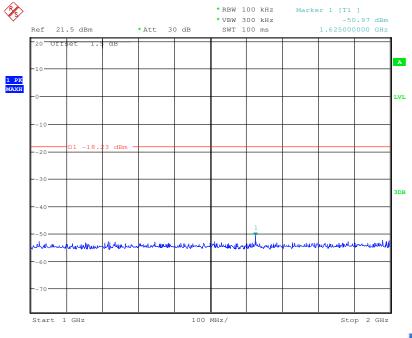
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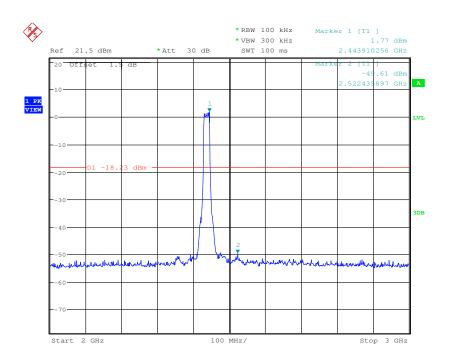


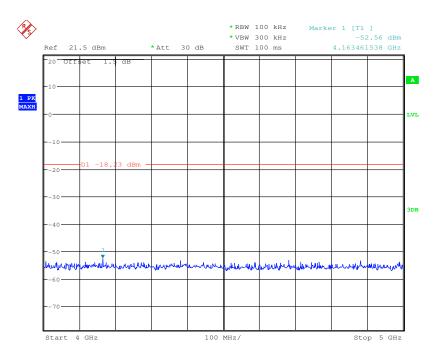




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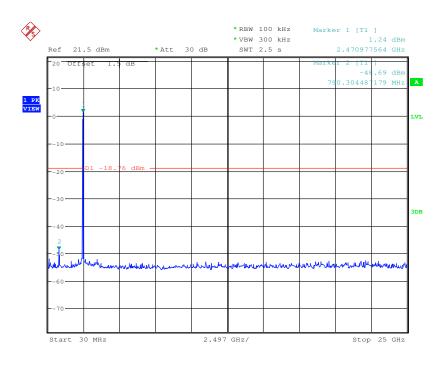
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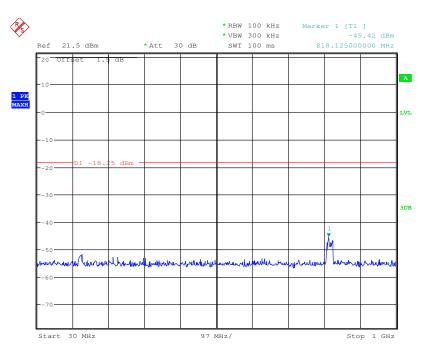


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Test mode: 802.11n(HT20) Test channel: Highest



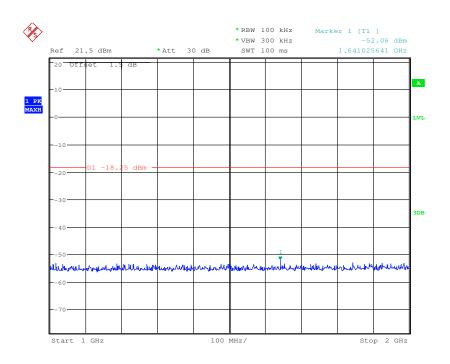


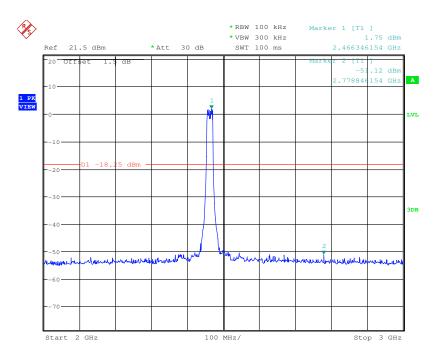
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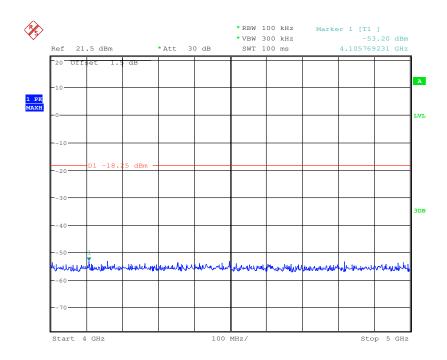


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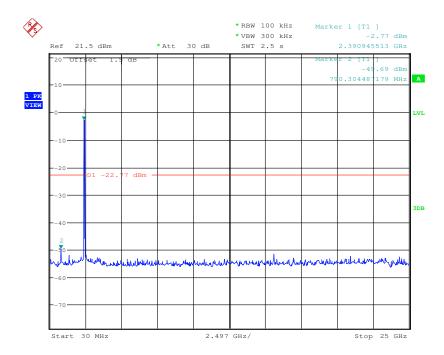


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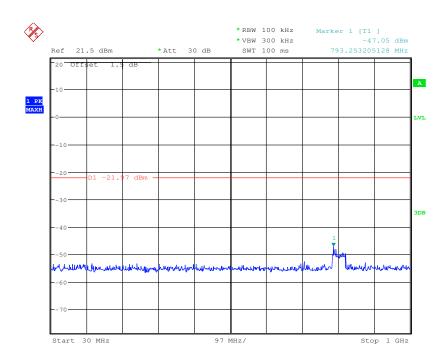
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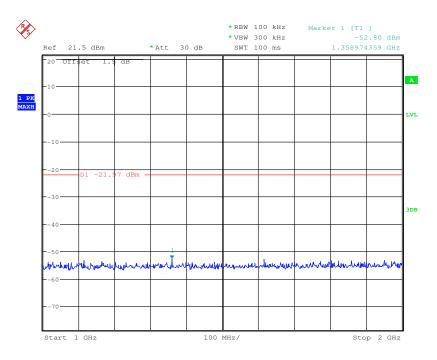




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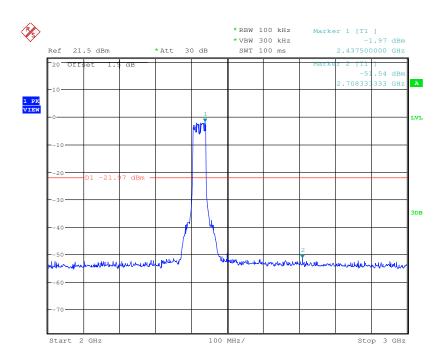


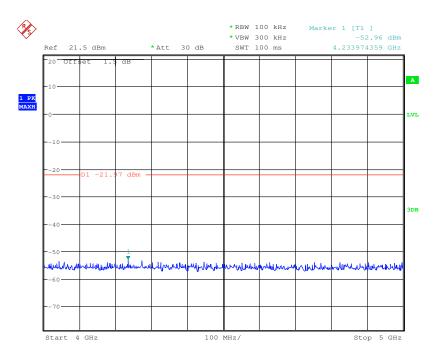
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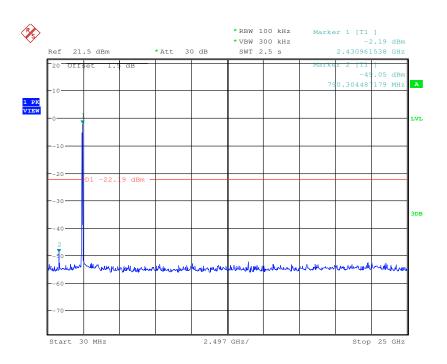
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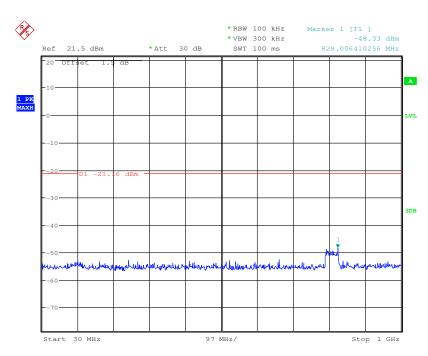


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Test mode: 802.11n(HT40) Test channel: Middle



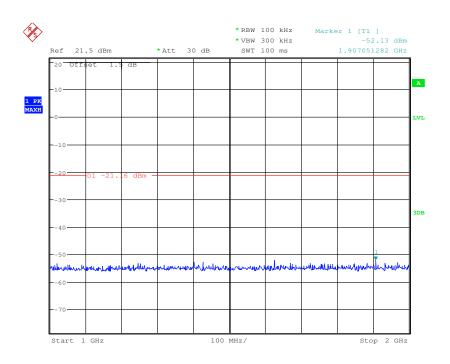


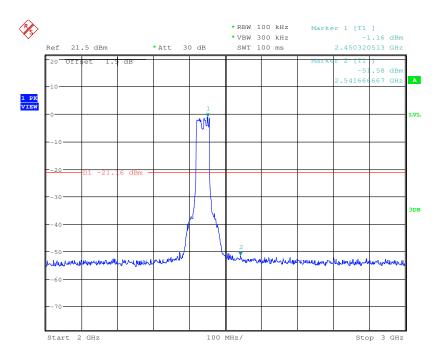
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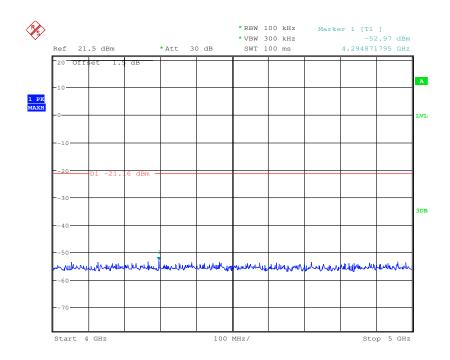


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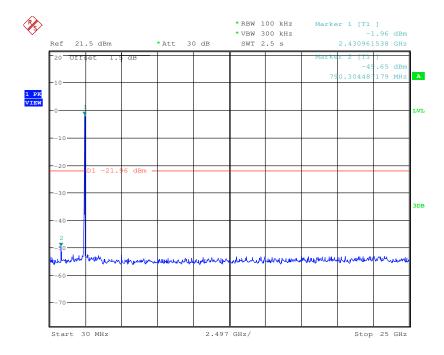


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Test mode:	802.11n(HT40)	Test channel:	Highest

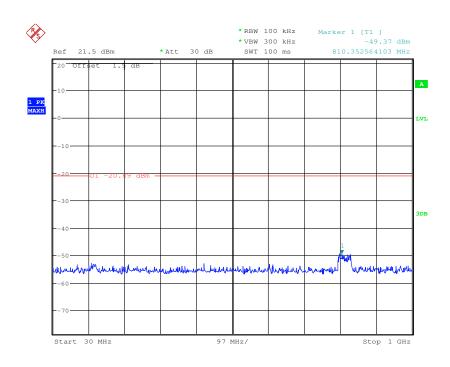


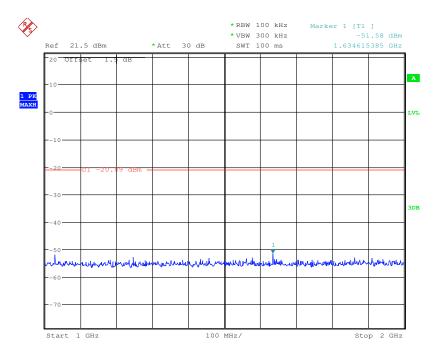
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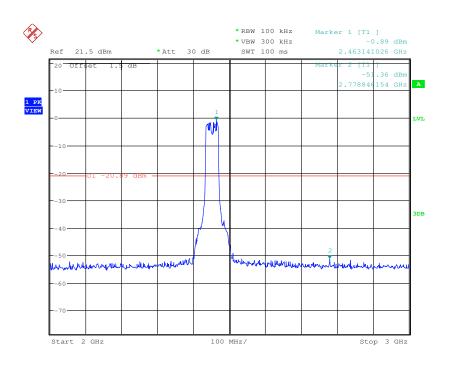


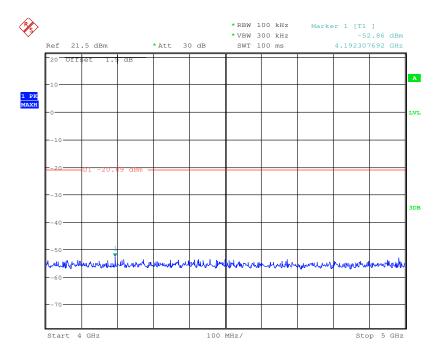
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Remark:

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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total pemission level radiated by the device.						

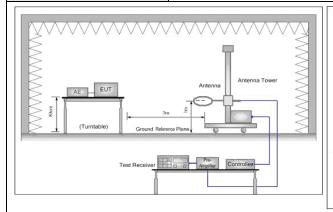
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Test Setup:



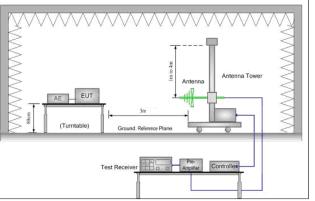


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

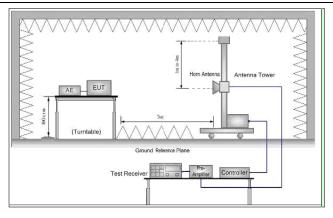


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.					
i. Repeat above procedures until all frequencies measured was complete.					
: Transmitting with all kind of modulations, data rates.					
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.					
Refer to section 5.10 for details					
Pass					

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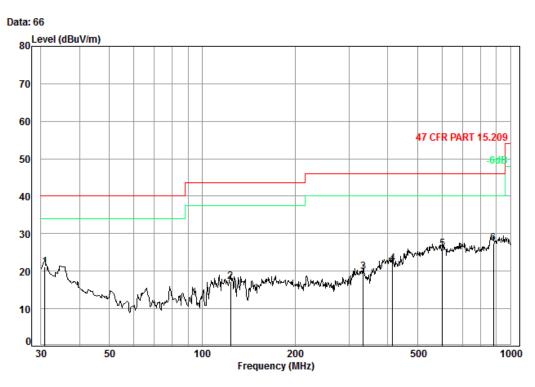


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6.8.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15.209 3m Vertical

Job No. : 2432CR

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.87	0.60	18.22	27.35	29.63	21.10	40.00	-18.90
2	123.53	1.26	7.83	27.05	35.16	17.20	43.50	-26.30
3	333.36	2.01	14.50	26.66	29.96	19.81	46.00	-26.19
4	414.96	2.27	16.36	27.23	30.62	22.02	46.00	-23.98
5	602.12	2.71	19.86	27.54	30.84	25.87	46.00	-20.13
6	880.08	3.53	23.04	26.89	27.84	27.52	46.00	-18.48

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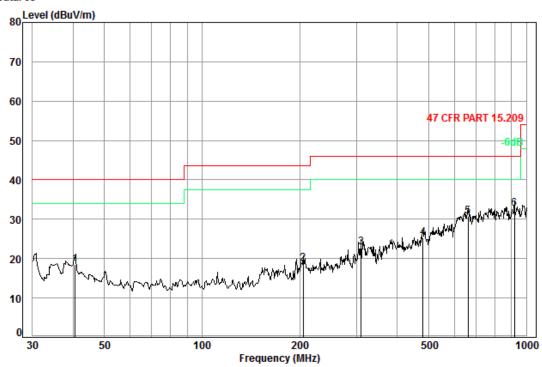


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Data: 65



Condition: 47 CFR PART 15.209 3m Horizontal

Job No. : 2432CR

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.58	0.61	12.84	27.32	32.38	18.51	40.00	-21.49
2	205.16	1.43	10.47	26.68	33.45	18.67	43.50	-24.83
3	309.89	1.93	14.26	26.48	33.17	22.88	46.00	-23.12
4	480.19	2.53	17.80	27.60	32.48	25.21	46.00	-20.79
5	662.05	2.83	20.99	27.46	34.48	30.84	46.00	-15.16
6	919.48	3.62	23.28	26.68	32.41	32.63	46.00	-13.37

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6.8.2 Transmitter emission above 1GHz

Test mode	э:	802.11b	Test c	hannel:	Lowest		Remark:		Peak
Frequency (MHz)	Cabl Loss (dB)	Factor	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	_	Line V/m)	Over Limit (dB)	Polarization
1672.296	2.76	29.54	38.39	47.02	40.93	74.	.00	-33.07	Vertical
3709.691	4.06	33.08	38.83	46.21	44.52	74.	.00	-29.48	Vertical
4824.000	4.29	34.70	39.24	46.38	46.13	74.	.00	-27.87	Vertical
7236.000	5.30	35.63	39.07	44.72	46.58	74.	.00	-27.42	Vertical
9648.000	6.52	37.33	37.93	43.14	49.06	74.	.00	-24.94	Vertical
11515.680	7.62	38.24	38.47	44.90	52.29	74.	.00	-21.71	Vertical
1621.985	2.70	29.30	38.39	46.09	39.70	74.	.00	-34.30	Horizontal
3598.087	4.17	33.00	38.78	47.36	45.75	74.	.00	-28.25	Horizontal
4824.000	4.29	34.70	39.24	49.57	49.32	74.	.00	-24.68	Horizontal
7236.000	5.30	35.63	39.07	45.48	47.34	74.	.00	-26.66	Horizontal
9648.000	6.52	37.33	37.93	43.75	49.67	74.	.00	-24.33	Horizontal
11515.680	7.62	38.24	38.47	44.90	52.29	74	.00	-21.71	Horizontal

Test mode: 8)2.11b	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
1880.038	2.93	30.76	38.41	46.74	42.02	74.00	-31.98	Vertical
3644.175	4.13	33.03	38.80	45.23	43.59	74.00	-30.41	Vertical
4874.000	4.36	34.78	39.26	44.96	44.84	74.00	-29.16	Vertical
7311.000	5.20	35.50	39.06	44.94	46.58	74.00	-27.42	Vertical
9748.000	6.49	37.81	37.84	41.92	48.38	74.00	-25.62	Vertical
11722.720	7.38	38.42	38.57	43.37	50.60	74.00	-23.40	Vertical
1823.477	2.90	30.30	38.41	46.43	41.22	74.00	-32.78	Horizontal
3454.486	3.85	32.84	38.72	46.80	44.77	74.00	-29.23	Horizontal
4874.000	4.36	34.78	39.26	49.63	49.51	74.00	-24.49	Horizontal
7311.000	5.20	35.50	39.06	44.52	46.16	74.00	-27.84	Horizontal
9748.000	6.49	37.81	37.84	43.00	49.46	74.00	-24.54	Horizontal
11226.250	7.47	38.12	38.33	44.42	51.68	74.00	-22.32	Horizontal

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Test mode: 8		302.11b	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cabl Los: (dB	s Factor	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1805.005	2.88	30.14	38.41	46.30	40.91	74.00	-33.09	Vertical
3672.110	4.10	33.06	38.82	46.34	44.68	74.00	-29.32	Vertical
4924.000	4.43	34.86	39.29	46.14	46.14	74.00	-27.86	Vertical
7386.000	5.15	5 35.43	39.05	42.68	44.21	74.00	-29.79	Vertical
9848.000	6.83	38.27	37.75	42.32	49.67	74.00	-24.33	Vertical
12024.960	7.17	7 38.73	38.72	45.19	52.37	74.00	-21.63	Vertical
1899.278	2.95	30.92	38.42	45.48	40.93	74.00	-33.07	Horizontal
3489.840	3.93	32.88	38.74	46.09	44.16	74.00	-29.84	Horizontal
4924.000	4.43	34.86	39.29	44.07	44.07	74.00	-29.93	Horizontal
7386.000	5.15	35.43	39.05	43.84	45.37	74.00	-28.63	Horizontal
9848.000	6.83	38.27	37.75	39.41	46.76	74.00	-27.24	Horizontal
11812.580	7.32	38.51	38.61	43.55	50.77	74.00	-23.23	Horizontal

Test mode:	802	.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
1655.354	2.74	29.46	38.39	52.65	46.46	74.00	-27.54	Vertical
3709.691	4.06	33.08	38.83	45.57	43.88	74.00	-30.12	Vertical
4824.000	4.31	34.72	39.24	47.41	47.20	74.00	-26.80	Vertical
7236.000	5.28	35.60	39.06	43.36	45.18	74.00	-28.82	Vertical
9648.000	6.51	37.45	37.91	42.42	48.47	74.00	-25.53	Vertical
11933.470	7.25	38.63	38.67	42.69	49.90	74.00	-24.10	Vertical
1663.803	2.75	29.50	38.39	50.58	44.44	74.00	-29.56	Horizontal
3598.087	4.17	33.00	38.78	45.65	44.04	74.00	-29.96	Horizontal
4824.000	4.31	34.72	39.24	45.00	44.79	74.00	-29.21	Horizontal
7236.000	5.28	35.60	39.06	44.21	46.03	74.00	-27.97	Horizontal
9648.000	6.51	37.45	37.91	44.00	50.05	74.00	-23.95	Horizontal
12241.140	6.82	39.00	38.91	44.00	50.91	74.00	-23.09	Horizontal

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Test mode:	802	2.11g	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
1541.476	2.66	28.84	38.38	48.74	41.86	74.00	-32.14	Vertical
3709.691	4.06	33.08	38.83	45.47	43.78	74.00	-30.22	Vertical
4874.000	4.36	34.77	39.26	50.22	50.09	74.00	-23.91	Vertical
7311.000	5.22	35.52	39.06	44.65	46.33	74.00	-27.67	Vertical
9748.000	6.49	37.76	37.85	41.40	47.80	74.00	-26.20	Vertical
11283.550	7.60	38.13	38.36	43.92	51.29	74.00	-22.71	Vertical
1655.354	2.74	29.46	38.39	52.77	46.58	74.00	-27.42	Horizontal
3579.815	4.13	32.98	38.78	44.68	43.01	74.00	-30.99	Horizontal
4874.000	4.36	34.77	39.26	44.83	44.70	74.00	-29.30	Horizontal
7311.000	5.22	35.52	39.06	43.22	44.90	74.00	-29.10	Horizontal
9748.000	6.49	37.76	37.85	42.77	49.17	74.00	-24.83	Horizontal
12117.140	7.02	38.85	38.80	42.91	49.98	74.00	-24.02	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
1663.803	2.75	29.50	38.39	54.46	48.32	74.00	-25.68	Vertical
3489.840	3.93	32.88	38.74	45.56	43.63	74.00	-30.37	Vertical
4944.000	4.42	34.84	39.28	47.56	47.54	74.00	-26.46	Vertical
7416.000	5.14	35.42	39.05	45.16	46.67	74.00	-27.33	Vertical
9888.000	6.74	38.18	37.77	41.71	48.86	74.00	-25.14	Vertical
12556.750	6.82	39.24	39.17	44.29	51.18	74.00	-22.82	Vertical
1655.354	2.74	29.46	38.39	53.00	46.81	74.00	-27.19	Horizontal
3709.691	4.06	33.08	38.83	45.51	43.82	74.00	-30.18	Horizontal
4944.000	4.42	34.84	39.28	47.56	47.54	74.00	-26.46	Horizontal
7416.000	5.14	35.42	39.05	44.26	45.77	74.00	-28.23	Horizontal
9888.000	6.74	38.18	37.77	41.33	48.48	74.00	-25.52	Horizontal
11283.550	7.60	38.13	38.36	43.03	50.40	74.00	-23.60	Horizontal

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Test mode:		802	.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Lo	ble ss B)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1663.803	2.	75	29.50	38.39	50.58	44.44	74.00	-29.56	Vertical
3454.486	3.	85	32.84	38.72	46.27	44.24	74.00	-29.76	Vertical
4824.000	4.3	31	34.72	39.24	44.40	44.19	74.00	-29.81	Vertical
7236.000	5.	28	35.60	39.06	43.87	45.69	74.00	-28.31	Vertical
9648.000	6.	51	37.45	37.91	41.83	47.88	74.00	-26.12	Vertical
11692.920	7.3	39	38.39	38.56	43.51	50.73	74.00	-23.27	Vertical
1663.803	2.	75	29.50	38.39	47.78	41.64	74.00	-32.36	Horizontal
3893.520	4.	12	33.32	38.91	44.70	43.23	74.00	-30.77	Horizontal
4824.000	4.	31	34.72	39.24	44.40	44.19	74.00	-29.81	Horizontal
7236.000	5.	28	35.60	39.06	43.15	44.97	74.00	-29.03	Horizontal
9648.000	6.	51	37.45	37.91	40.34	46.39	74.00	-27.61	Horizontal
12055.600	7.	12	38.77	38.75	42.10	49.24	74.00	-24.76	Horizontal

Test mode:		802	.11n(HT20)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cak Los (dl	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1698.033	2.7	78	29.65	38.4	45.45	39.48	74	-34.52	Vertical
3690.853	4.0)8	33.07	38.82	45.18	43.51	74	-30.49	Vertical
4874.000	4.3	36	34.77	39.26	49.44	49.31	74	-24.69	Vertical
7311.000	5.2	22	35.52	39.06	42.94	44.62	74	-29.38	Vertical
9748.000	6.4	19	37.76	37.85	40.05	46.45	74	-27.55	Vertical
11056.090	7.3	32	38.11	38.25	42.13	49.31	74	-24.69	Vertical
1655.354	2.7	74	29.46	38.39	51.46	45.27	74	-28.73	Horizontal
3709.691	4.0)6	33.08	38.83	46.39	44.7	74	-29.3	Horizontal
4874.000	4.3	36	34.77	39.26	44.79	44.66	74	-29.34	Horizontal
7311.000	5.2	22	35.52	39.06	45.13	46.81	74	-27.19	Horizontal
9748.000	6.4	19	37.76	37.85	42.55	48.95	74	-25.05	Horizontal
11872.880	7.2	29	38.57	38.64	44.15	51.37	74	-22.63	Horizontal



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Test mode:	8	02.11n(HT20)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Factor	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1663.803	2.75	29.50	38.39	51.51	45.37	74.00	-28.63	Vertical
3672.110	4.10	33.06	38.82	46.58	44.92	74.00	-29.08	Vertical
4944.000	4.42	34.84	39.28	46.58	46.56	74.00	-27.44	Vertical
7416.000	5.14	35.42	39.05	47.28	48.79	74.00	-25.21	Vertical
9888.000	6.74	38.18	37.77	41.71	48.86	74.00	-25.14	Vertical
12117.140	7.02	38.85	38.80	44.44	51.51	74.00	-22.49	Vertical
1655.354	2.74	29.46	38.39	49.37	43.18	74.00	-30.82	Horizontal
3672.110	4.10	33.06	38.82	46.58	44.92	74.00	-29.08	Horizontal
4944.000	4.42	34.84	39.28	46.58	46.56	74.00	-27.44	Horizontal
7416.000	5.14	35.42	39.05	45.17	46.68	74.00	-27.32	Horizontal
9888.000	6.74	38.18	37.77	41.71	48.86	74.00	-25.14	Horizontal
12117.140	7.02	38.85	38.80	44.44	51.51	74.00	-22.49	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1329.894	2.55	27.77	38.35	49.25	41.22	74.00	-32.78	Vertical
3747.656	4.03	33.11	38.85	45.51	43.80	74.00	-30.20	Vertical
4844.000	4.33	34.74	39.25	44.88	44.70	74.00	-29.30	Vertical
7266.000	5.25	35.57	39.06	43.41	45.17	74.00	-28.83	Vertical
9688.000	6.50	37.57	37.88	43.64	49.83	74.00	-24.17	Vertical
12117.140	7.02	38.85	38.80	43.51	50.58	74.00	-23.42	Vertical
1655.354	2.74	29.46	38.39	54.26	48.07	74.00	-25.93	Horizontal
3598.087	4.17	33.00	38.78	45.05	43.44	74.00	-30.56	Horizontal
4844.000	4.33	34.74	39.25	50.92	50.74	74.00	-23.26	Horizontal
7266.000	5.25	35.57	39.06	43.40	45.16	74.00	-28.84	Horizontal
9688.000	6.50	37.57	37.88	40.33	46.52	74.00	-27.48	Horizontal
11283.550	7.60	38.13	38.36	43.37	50.74	74.00	-23.26	Horizontal

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Test mode:		802	.11n(HT40)	Test ch	annel:	Middle	Remark	C:	Peak
Frequency (MHz)	Lo	ble ss B)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1655.354	2.	74	29.46	38.39	53.68	47.49	74.00	-26.51	Vertical
3728.625	4.	05	33.10	38.84	45.24	43.55	74.00	-30.45	Vertical
4874.000	4.	36	34.77	39.26	47.99	47.86	74.00	-26.14	Vertical
7311.000	5.	22	35.52	39.06	44.43	46.11	74.00	-27.89	Vertical
9748.000	6.	49	37.76	37.85	41.30	47.70	74.00	-26.30	Vertical
11994.380	7.	21	38.69	38.70	43.54	50.74	74.00	-23.26	Vertical
1655.354	2.	74	29.46	38.39	49.99	43.80	74.00	-30.20	Horizontal
3728.625	4.	05	33.10	38.84	45.24	43.55	74.00	-30.45	Horizontal
4874.000	4.	36	34.77	39.26	47.99	47.86	74.00	-26.14	Horizontal
7311.000	5.	22	35.52	39.06	44.43	46.11	74.00	-27.89	Horizontal
9748.000	6.	49	37.76	37.85	41.07	47.47	74.00	-26.53	Horizontal
12055.600	7.	12	38.77	38.75	43.38	50.52	74.00	-23.48	Horizontal

Test mode:		802	.11n(HT40)	Test ch	annel:	Highest	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
1663.803	2.7	⁷ 5	29.50	38.39	45.65	39.51	74.00	-34.49	Vertical
3598.087	4.1	17	33.00	38.78	43.96	42.35	74.00	-31.65	Vertical
4924.000	4.4	10	34.82	39.28	43.43	43.37	74.00	-30.63	Vertical
7386.000	5.1	15	35.44	39.05	43.57	45.11	74.00	-28.89	Vertical
9848.000	6.6	32	38.06	37.79	41.00	47.89	74.00	-26.11	Vertical
11812.580	7.3	32	38.51	38.61	42.07	49.29	74.00	-24.71	Vertical
1663.803	2.7	⁷ 5	29.50	38.39	53.12	46.98	74.00	-27.02	Horizontal
3709.691	4.0)6	33.08	38.83	45.55	43.86	74.00	-30.14	Horizontal
4924.000	4.4	10	34.82	39.28	49.09	49.03	74.00	-24.97	Horizontal
7386.000	5.1	5	35.44	39.05	44.98	46.52	74.00	-27.48	Horizontal
9848.000	6.6	62	38.06	37.79	40.49	47.38	74.00	-26.62	Horizontal
12024.960	7.1	17	38.73	38.72	43.22	50.40	74.00	-23.60	Horizontal

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.

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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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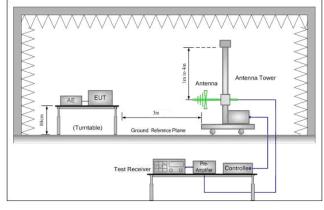


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	5.209 and 15.205								
Test Method:	ANSI C63.10 2009	NSI C63.10 2009								
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	r)							
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 1011=	54.0	Average Value							
	Above 1GHz 74.0 Peak Value									
Test Setup:										



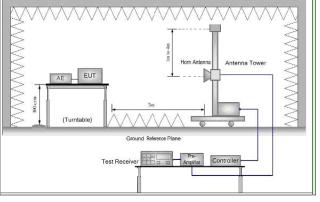


Figure 1. 30MHz to 1GHz

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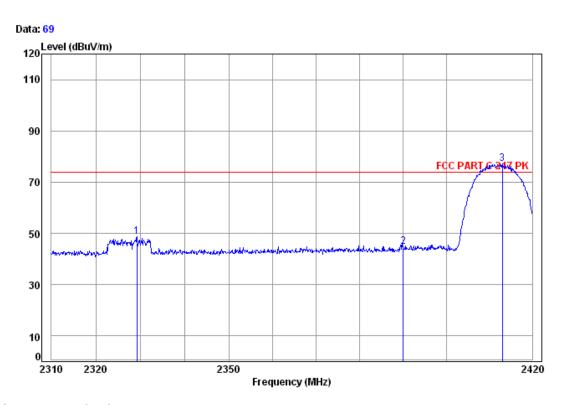


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Test plot as follows:

Test mode: 802.11b Test	st channel: Lowest	Remark:	Peak	Vertical
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Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

Mode: : 2412 B Band edge

		Caute	ALL	rreamp	Neau		CTILIT	Over
	Freq	Loss	Factor	Factor	Level	Le∨el	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2329.21	4.82	31.95	38.45	50.33	48.65	74.00	-25.35
2	2390.00	4.90	32.35	38.46	45.97	44.76	74.00	-29.24
3 рр	2413.03	4.93	32.41	38.46	78.18	77.06	74.00	3.06

Pood

Limi+

Oven

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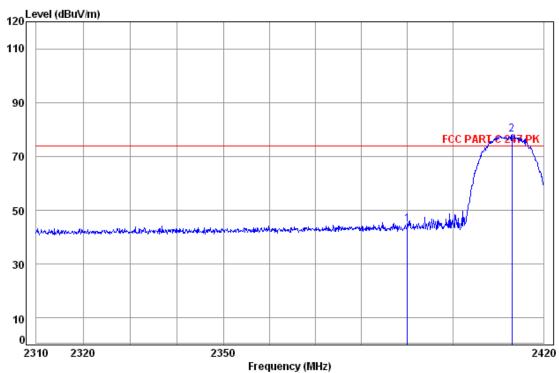


Report No.: SZEM150500243201

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	Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
--	------------	---------	---------------	--------	---------	------	------------





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2412 B Band edge

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00 2413.03							

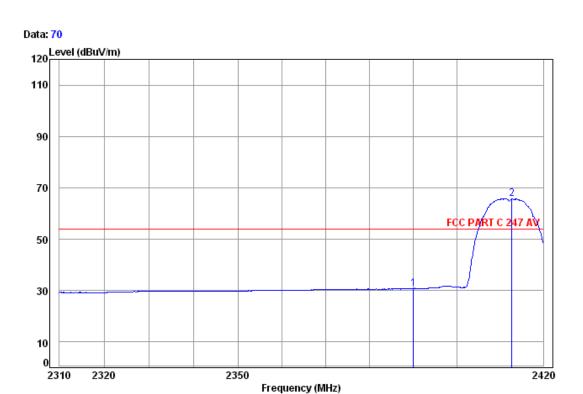
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Test mode: 802.11b Test channel: Lowest Remark: Average Vertical



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

1

Mode: : 2412 B Band edge

				_				
		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Le∨el	Level	Line	Limit
	-							
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
			,			,	,	
	2390.00	4.90	32.35	38.46	32.05	30.84	54.00	-23.16
	2220.00			20	22.02	20.0.	2	
nn	2412 69	4 93	32 41	38 46	66 88	65 76	54 00	11 76

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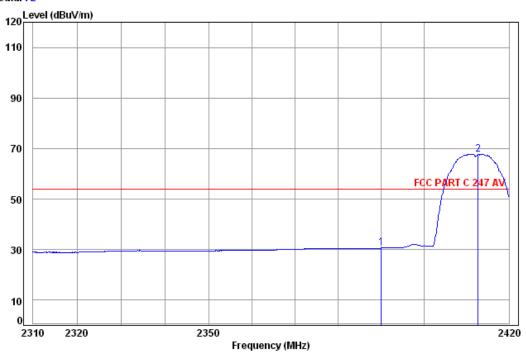


Report No.: SZEM150500243201

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Test mode: 802.11b Test channel: Lowest Remark: Average Horizonta

Data: 72



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2412 B Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Le∨el Line Limit dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ 2390.00 4.90 32.35 38.46 31.84 30.63 54.00 -23.37 38.46 4.93 32.41 68.92 67.80 54.00 13.80 2 pp 2412.69

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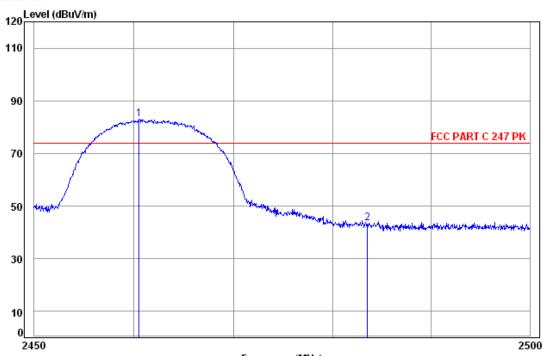


Report No.: SZEM150500243201

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Test mode: 802.11b Test	channel: Highest	Remark:	Peak	Vertical
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Data: 153



Frequency (MHz)

Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

Mode: : 2462 B Band edge

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Le∨el Level Line dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ dΒ 2460.52 5.00 32.43 38.46 84.1183.08 74.00 9.08 2483.50 5.03 32.44 38.47 44.48 43.48 74.00 -30.52



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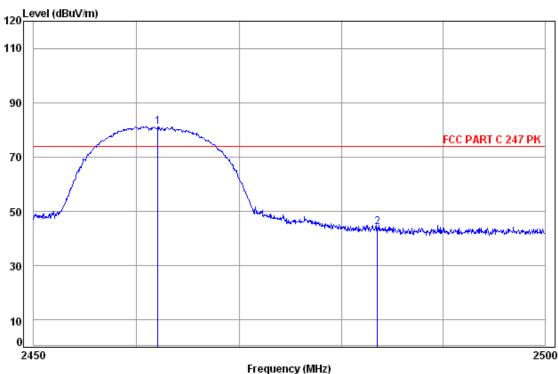


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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
			3			





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2462 B Band edge

Cable Ant Preamp Read Limit 0∨er Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dΒ 5.00 32.43 38.46 2462.06 82.18 81.15 74.00 7.15 2483.50 5.03 32.44 38.47 45.25 44.25 74.00 -29.75

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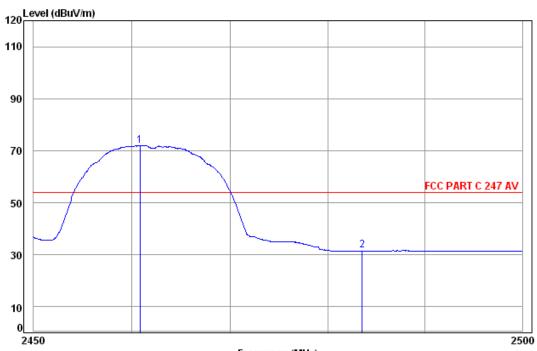


Report No.: SZEM150500243201

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





Frequency (MHz)

Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

Mode: : 2462 B Band edge

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2460.81 2483.50							

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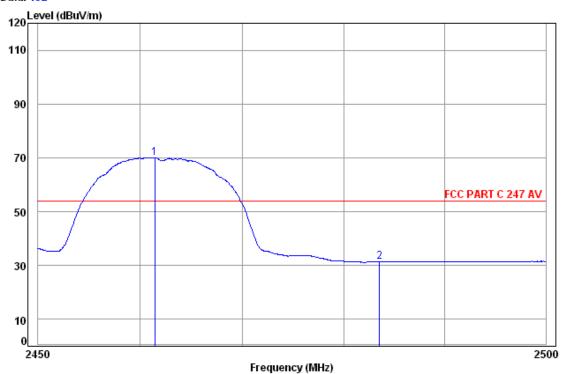


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		Test mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
--	--	------------	---------	---------------	---------	---------	---------	------------

Data: 152



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2462 B Band edge

0ver Cable Ant Preamp Read Limit Loss Factor Factor Le∨el Level Line Limit Freq MHz dB dB dBuV dBuV/m dBuV/m dB/m 2461.41 5.00 32.43 38.46 71.05 70.02 54.00 16.02 2483.50 5.03 32.44 38.47 32.35 31.35 54.00 -22.65

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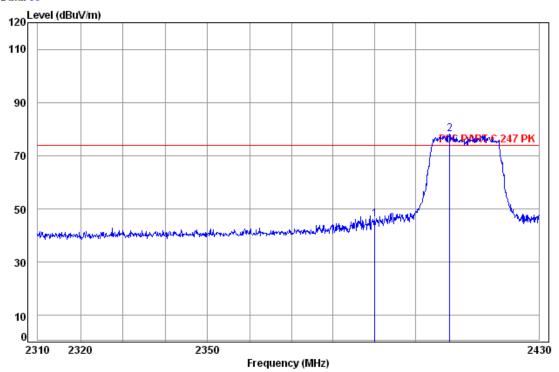


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Test mode: 802.11g Test channel: Lowest Remark: Peak Vertical

Data: 83



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

2 pp 2408.19

Mode: : 2412 G Band edge

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dB/m dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 47.41 46.20 74.00 -27.80

4.93 32.41 38.46 79.39 78.27 74.00

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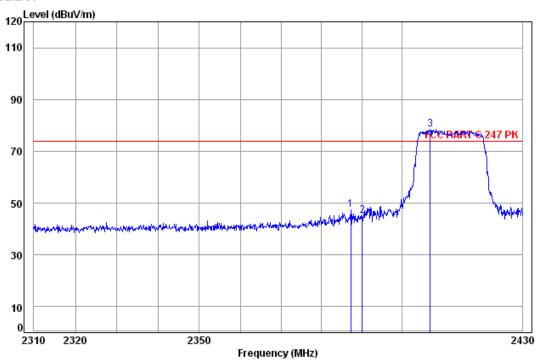


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
Tost mode.	1 002.11g	i cot charinoi.	LOWCSI	riciliari.	i can	Honzontal





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2412 G Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Le∨el	Le∨el	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.19	4.90	32.33	38.46	48.60	47.37	74.00	-26.63
2	2390.00	4.90	32.35	38.46	46.31	45.10	74.00	-28.90
3 рр	2406.97	4.92	32.41	38.46	79.76	78.63	74.00	4.63

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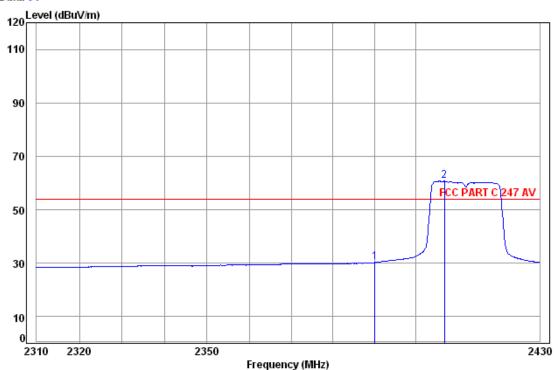


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Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical





Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

1 2

Mode: : 2412 G Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	-							
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
			,					
	2390.00	4.90	32.35	38.46	31.51	30.30	54.00	-23.70
pp	2406.85	4.92	32.41	38.46	61.84	60.71	54.00	6.71

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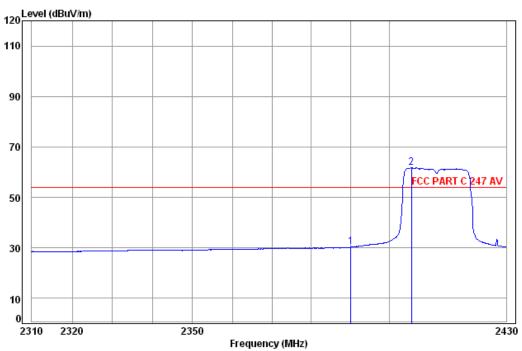


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1 TEST HIDGE. OUZ. FIG. TEST CHAINEL. LOWEST ITEMAIN. AVEIAGE HOUZOHIAI	Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
---	------------	---------	---------------	--------	---------	---------	------------





Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2412 G Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Le∨el	Level	Line	Limit
	_							
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
							•	
1	2390.00	4.90	32.35	38.46	31.60	30.39	54.00	-23.61
2 pp	2405.51	4.92	32.41	38.46	62.85	61.72	54.00	7.72

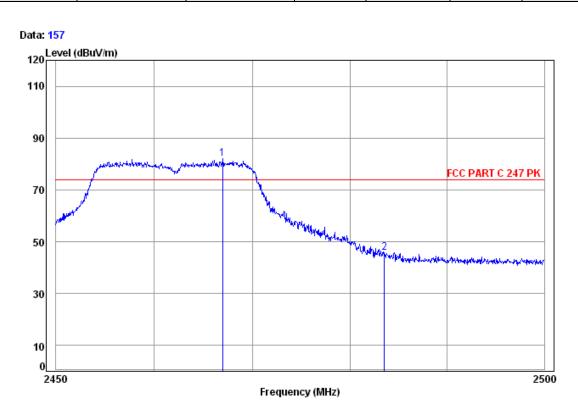
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Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2462 G Band edge

Cable Ant Preamp Read Limit 0ver Limit Frea Loss Factor Factor Level Level Line MHz dΒ dBuV dBuV/m dBuV/m dΒ dB/m dΒ 5.01 32.43 38.46 83.16 82.14 2466.94 74.00 8.14 5.03 32.44 38.47 46.75 45.75 2483.50 74.00 -28.25

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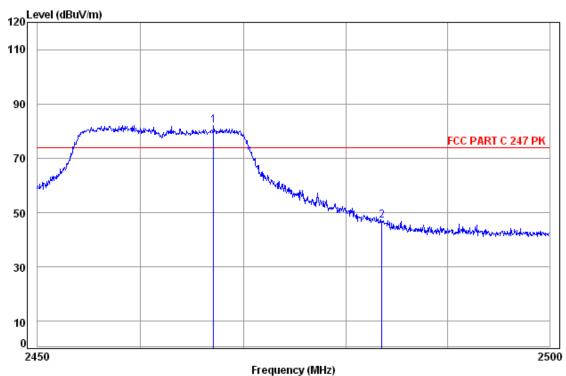


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Test mode: 802.11g Test channel: Highest Remark: Peak Vertical





Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

Mode: : 2462 G Band edge

				Preamp Factor	Ant	Cable	Freq	ouc.
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
				38.46 38.47			2467.09 2483.50	1 pp 2

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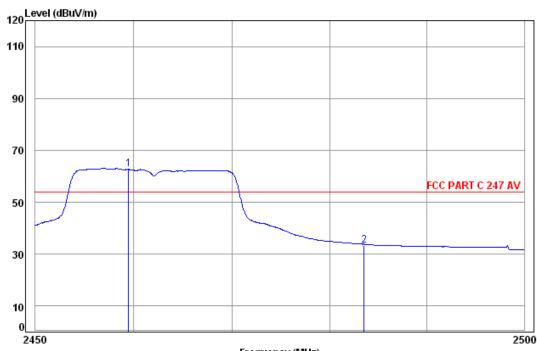


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Test mode: 802.11g Test channel: Highest Remark: Average Vertical

Data: 156



Frequency (MHz)

Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

Mode: : 2462 G Band edge

Cable Ant Preamp Limit 0∨er Read Loss Factor Factor Limit Freq Le∨el Le∨el Line MHz dBuV dBuV/m dBuV/m dB dB/m dΒ 2459.47 5.00 32.43 38.46 63.70 62.67 54.00 2483.50 5.03 32.44 38.47 34.42 33.42 54.00 -20.58



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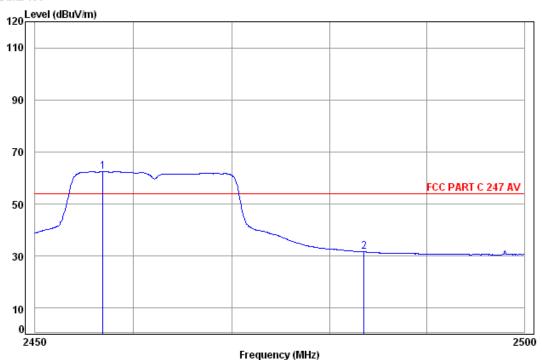


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Test mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal





Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2462 G Band edge

	Limit Level Line						Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	_
8.57	54.00	62.57	63.61	38.46	32.43	4.99	2456.89	1 pp
-22.42	54.00	31.58	32.58	38.47	32.44	5.03	2483.50	2

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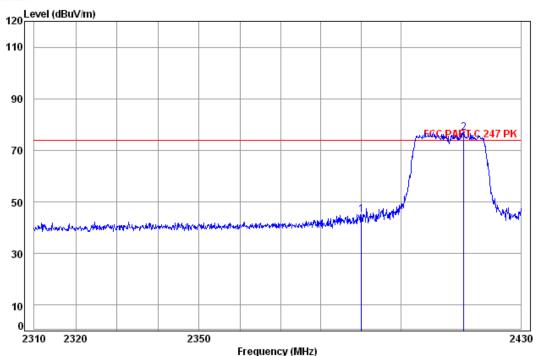


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Test mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical





Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

Mode: : 2412 N20 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Limit Level Line MHz dΒ dB/m dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 46.26 45.05 4.94 32.42 38.46 77.93 76.83 74.00 2 pp 2415.64

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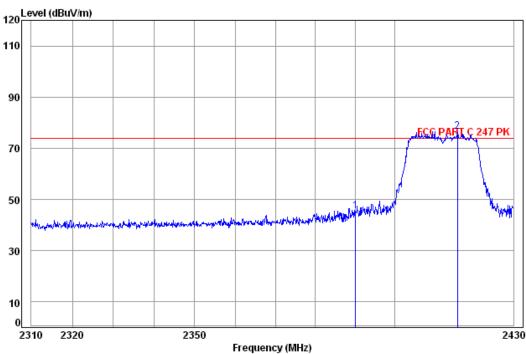


Report No.: SZEM150500243201

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





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2412 N20 Band edge

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB/m 46.76 45.55 2390.00 4.90 32.35 38.46 74.00 -28.45 4.94 32.42 38.46 77.59 2415.77 76.49 74.00

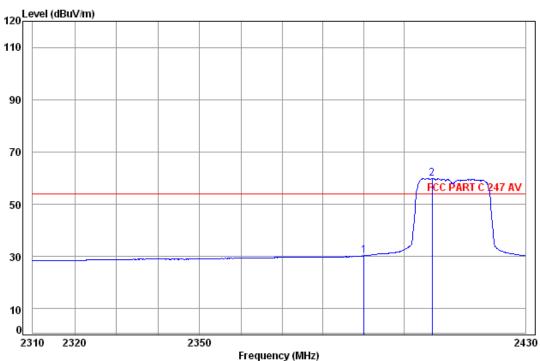


Report No.: SZEM150500243201

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





Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

Mode: : 2412 N20 Band edge

		Cable	Ant	Preamp	Read		Limit	0∨er
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
		G.D	CID/III	o.D	abar	abar, iii	abar, iii	CID.
4	2200 00	4 00	22.25	20 46	21 56	20.25	E4 00	22.65
T	2390.00	4.90	52.55	30.40	51.56	56.55	54.00	-25.65
2 pp	2406.85	4.92	32.41	38.46	60.99	59.86	54.00	5.86

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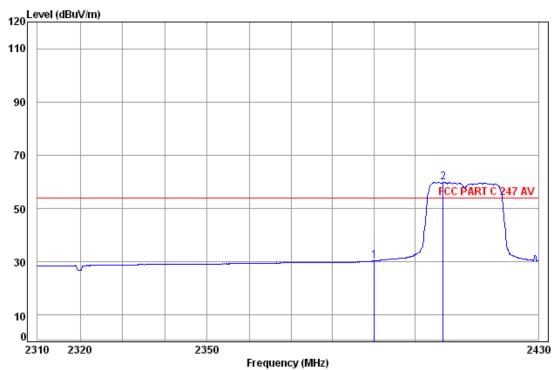


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rest mode.	Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
------------	------------	---------------	---------------	--------	---------	---------	------------

Data: 86



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2412 N20 Band edge

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2406.73							

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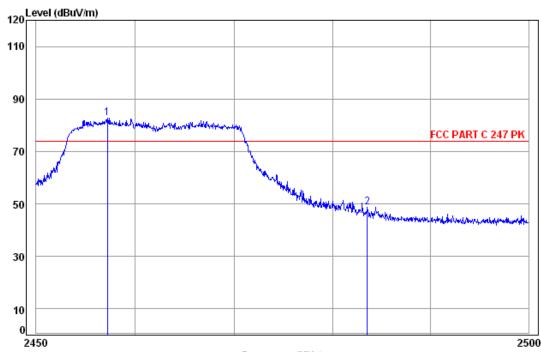


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Test mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal





Frequency (MHz)

Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

1 2

Mode: : 2462 N20 Band edge

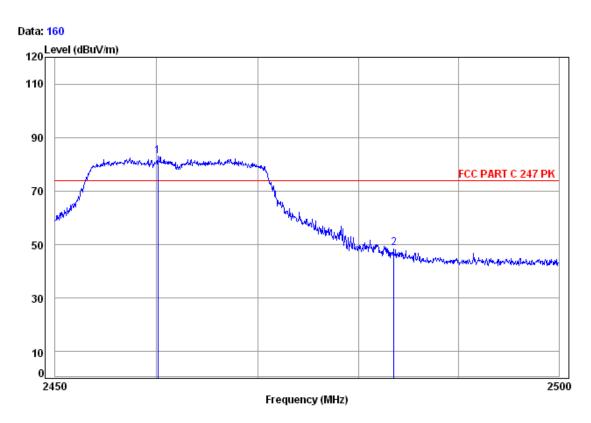
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
pp	2457.19 2483.50							



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



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

Mode: : 2462 N20 Band edge

Limit Cable Ant Preamp 0ver Read Freq Loss Factor Factor Level Level Line Limit MHz dΒ dB/m dBuV dBuV/m dBuV/m dB 38.46 84.09 1 pp 2460.12 5.00 32.43 83.06 74.00 9.06 2483.50 32.44 38.47 49.61 48.61 74.00 -25.39 5.03

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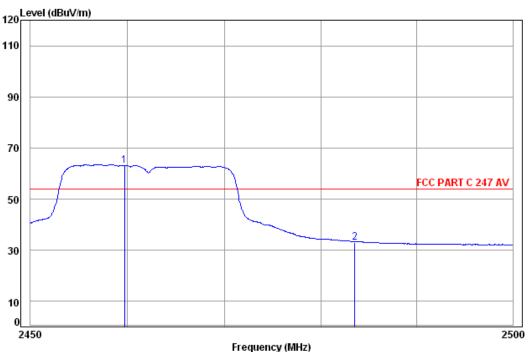


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Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
	(- /					





Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

Mode: : 2462 N20 Band edge

Ant Preamp Cable Read Limit 0∨er Freq Loss Factor Factor Level Limit Level Line MHz dBuV dBuV/m dBuV/m dΒ dB/m dΒ dΒ 2459.67 5.00 32.43 38.46 64.26 63.23 54.00 9.23 1 pp 38.47 2483.50 5.03 32.44 33.98 32.98 54.00 -21.02

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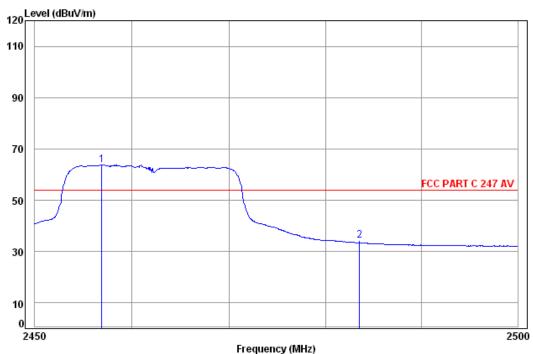


Report No.: SZEM150500243201

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





Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2462 N20 Band edge

Cable Ant Preamp Read Limit 0∨er Loss Factor Factor Level Level Limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m dΒ 2456.89 4.99 32.43 38.46 64.83 63.79 9.79 5.03 32.44 38.47 35.32 34.32 54.00 - 19.68

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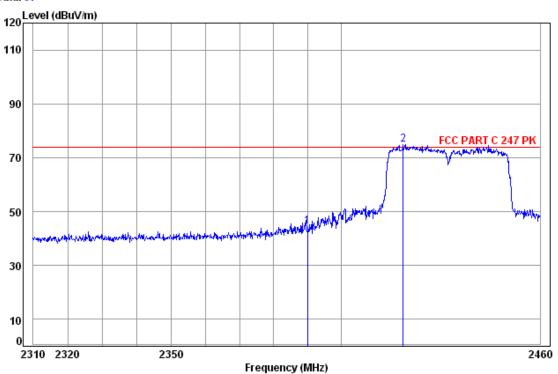


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Test mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Vertical

Data: 97



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 2432CR

2 pp

Mode: : 2422 N40 Band edge

Cable Ant Preamp Limit 0ver Read Freq Loss Factor Factor Limit Level Level Line MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 45.55 44.34 74.00 -29.66 74.93 2418.57 4.94 32.42 38.46 76.03 74.00 0.93



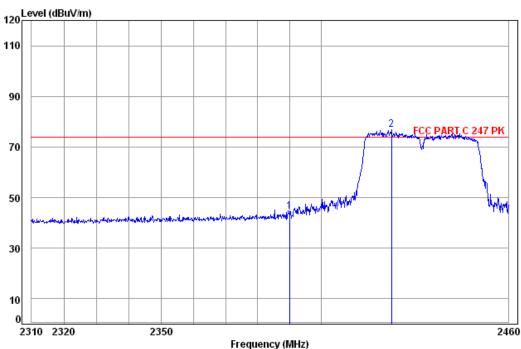


Report No.: SZEM150500243201

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





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2422 N40 Band edge

				Preamp				
	Freq	Loss	Factor	Factor	Le∨el	Le∨el	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 pp	2390.00 2422.37							

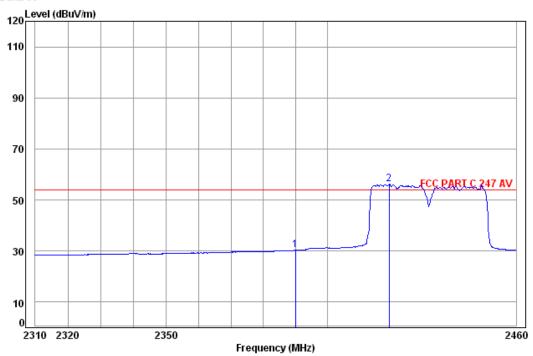


Report No.: SZEM150500243201

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





Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

1

Mode: : 2422 N40 Band edge

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit MHz dB/m dΒ dBuV dBuV/m dBuV/m dΒ 2390.00 4.90 32.35 38.46 31.55 30.34 54.00 -23.66 2 pp 38.46 57.27 56.17 2419.48 4.94 32.42 54.00 2.17

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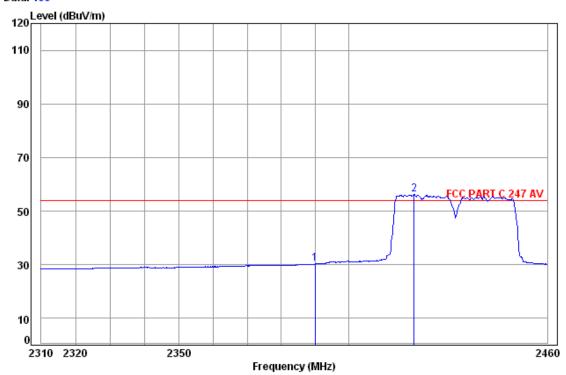


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Test mode: 802.11n(HT40) Test channel: Lowest Remark: Average Horizontal





Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

1 2

Mode: : 2422 N40 Band edge

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00	4.90	32.35	38.46	31.55	30.34	54.00	-23.66
pp	2419.63	4.94	32.42	38.46	57.29	56.19	54.00	2.19

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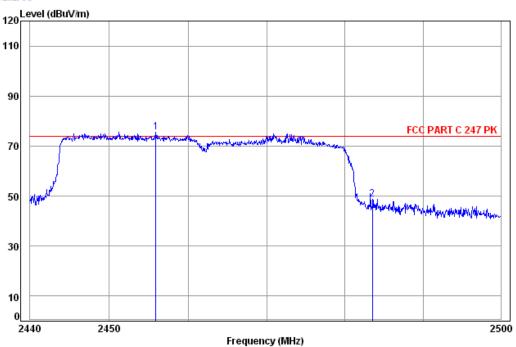


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Test mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal





Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 2432CR

Mode: : 2452 N40 Band edge

				Preamp Factor			Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
1.49	74.00	75.49	76.53	38.46	32.43	4.99	2455.88	1 рр
-25.26	74.00	48.74	49.74	38.47	32.44	5.03	2483.50	2

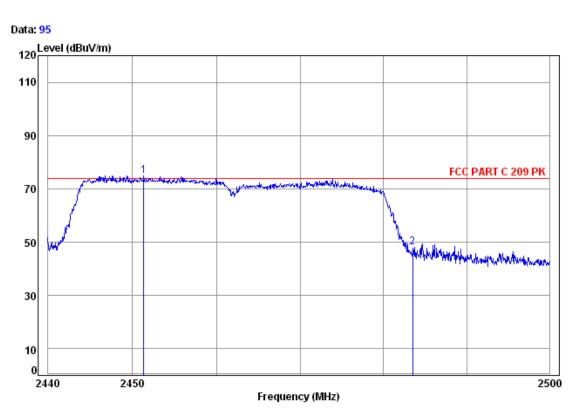
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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
	00					



Site : chamber

Condition: FCC PART C 209 PK 3m Vertical

Job No: : 2432CR

Mode: : 2452 N40 Band edge

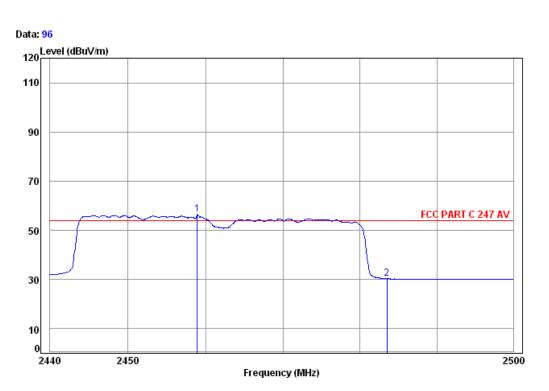
0∨er	Limit		Read	Preamp	Ant	Cable		
Limit	Line	Le∨el	Level	Factor	Factor	Loss	Freq	
dB	dBu\//m	dBu\//m	-dBuV	dB	dB/m	dB	MHz	_
ub	abav/III	abav/III	ubuv	ab	GD/III	uБ	F1112	
0.93	74.00	74.93	75.98	38.46	32.43	4.98	2451.35	1 pp
-25.85	74.00	48.15	49.15	38.47	32.44	5.03	2483.50	2



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



limit

Over

Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 2432CR

Mode: : 2452 N40 Band edge

Cable

	Freq			Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2458.92 2483.50							

Read

Ant Preamn

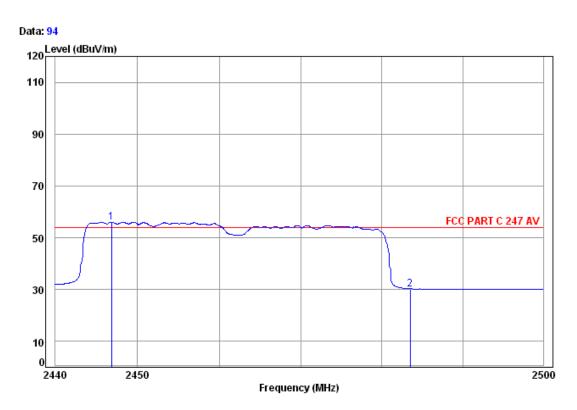
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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 2432CR

Mode: : 2452 N40 Band edge

Freq			Preamp Factor				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
 2446.83 2483.50							

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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7 Photographs - EUT Test Setup

Test model No.: WK1230

7.1 Radiated Spurious Emission







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7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1505002432CR.