

Report No.: SZEM121100626401

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FCC REPORT

Application No: SZEM1211006264RF

Applicant: Lexibook America

Manufacturer: Zhongshan Readboy Electronics Co., LTD

Factory: Zhongshan Readboy Electronics Co., LTD

Product Name: LAPTOP

Model No.(EUT): MFC140

FCC ID: UU8-MFC04

Standards: 47 CFR Part 15, Subpart C (2011)

Date of Receipt: 2012-11-27

Date of Test: 2012-11-30 to 2012-12-06

Date of Issue: 2013-01-14

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 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	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Band Edge (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS



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4 General Information

4.1 Client Information

Applicant:	Lexibook America
Address of Applicant:	C/O NATXIS PRAMEX INTERNATIONAL-NORTH AMERICA 1251
	avenue of the Americas 34th floor, New York, 10020, United States
Manufacturer:	Zhongshan Readboy Electronics Co., LTD
Address of Manufacturer:	Industrial Park, Changmingshui, Wuguishan, Zhongshan, Guangdong,
	China
Factory:	Zhongshan Readboy Electronics Co., LTD
Address of Factory:	Industrial Park, Changmingshui, Wuguishan, Zhongshan, Guangdong,
	China

4.2 General Description of EUT

Product Name:	LAPTOP
Model No.:	MFC140
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:	Portable production
Test Power Grade:	12dBm (manufacturer declare)
Test Software of EUT:	Adb(manufacturer declare)
Antenna Type:	Dedicated
Antenna Gain:	1.2dBi
Power Supply:	AC ADAPTER
	MODEL: SDF0500150A1BA
	INPUT: 100-240V~50/60Hz 0.18A
	OUTPUT: 5.0V == 1.5A
	DC 3.7V 2800mAh Li-ion Battery



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DC Cable:	145 cm unshielded
USB Cable:	95 cm unshielded
Microphone &	
Earphone Cable:	220 cm unshielded
Test Voltage:	AC 120V/60Hz

Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	Frequency	Channel	Fre	quency	Chan	nel	Frequency
1	24	412MHz	4	2427MHz	7	244	42MHz	10		2457MHz
2	24	417MHz	5	2432MHz	8	244	47MHz	11		2462MHz
3	24	422MHz	6	2437MHz	9	245	52MHz			
Operation I	-requ	iency each	of channe	el(802.11n HT40)					
Channe	Channel Frequency			Channel	Frequen	су	Chan	nel	F	requency
1		2422	ИНz	4	2437MF	lz	7			2452MHz
2		2427	ИНz	5	2442MF	lz		•		
3 2432M		ИНz	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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4.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1016 mbar
Test mode:	
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s)

4.4 Description of Support Units

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.
Mouse	Lenovo	MO28UOL
Microphone &	BITV	\
Earphone		

4.5 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.



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4.6 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 3m Semi-anechoic chamber, Full-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.: R-2197, G-416, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

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

• Industry Canada (IC)

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

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None

4.9 Other Information Requested by the Customer

None.



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4.10Equipment 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	2013-06-10			
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2013-10-24			
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2013-5-17			
4	Coaxial Cable	SGS	N/A	SEL0025	2013-05-29			
5	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2013-10-24			
6	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2013-10-24			
7	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24			



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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	2013-06-10		
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17		
3	EMI Test software	AUDIX	E3	SEL0050	N/A		
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2013-10-24		
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2013-10-24		
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2013-10-24		
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17		
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2013-10-24		
9	Coaxial cable	SGS	N/A	SEL0027	2013-05-59		
10	Coaxial cable	SGS	N/A	SEL0189	2013-05-29		
11	Coaxial cable	SGS	N/A	SEL0121	2013-05-29		
12	Coaxial cable	SGS	N/A	SEL0178	2013-05-29		
13	Band filter	Amindeon	82346	SEL0094	2013-05-17		
14	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24		
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2013-10-24		
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2013-10-24		
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17		
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2013-10-24		
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-06-04		



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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	2013-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2013-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2013-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2013-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2013-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2013-05-17
8	Band filter	amideon	82346	SEL0094	2013-05-17
9	POWER METER	R&S	NRVS	SEL0144	2013-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2013-05-17
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2013-10-24

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



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5 Test results and Measurement Data

5.1 Antenna Requirement

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

15.203 requirement:

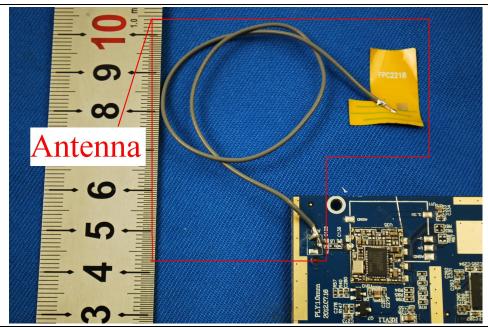
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.2dBi.







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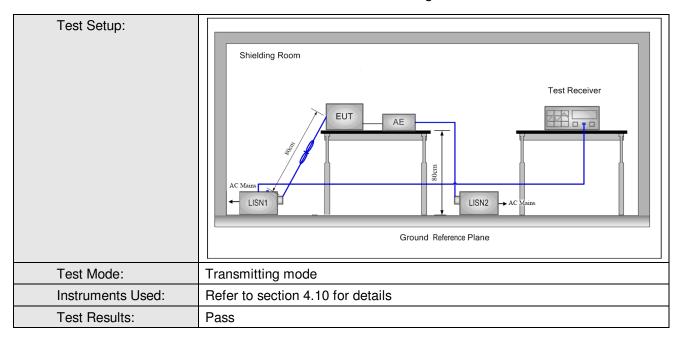
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear 				
	impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.				



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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.

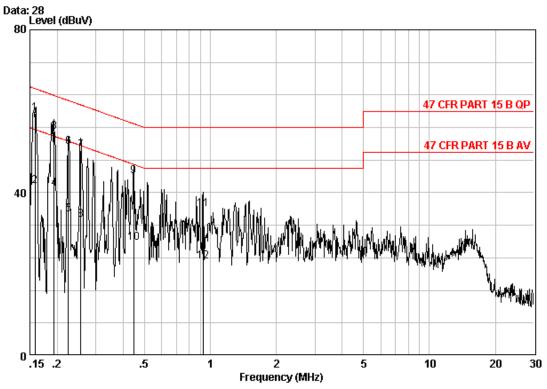
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Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

Job No. : 6264RF Mode : Transmitting

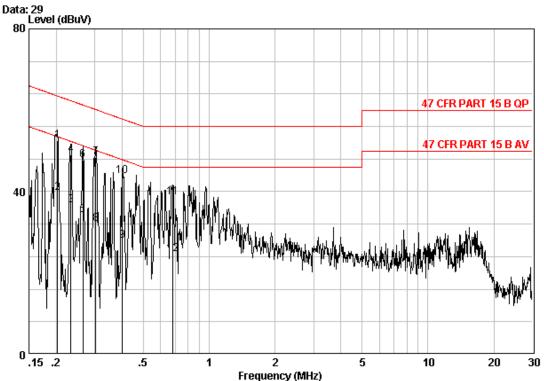
		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0	0.15800	0.02	9.70	49.70	59.42	65.57	-6.15	QP
2		0.15800	0.02	9.70	31.90	41.62	55.57	-13.95	Average
3	0	0.19344	0.02	9.70	45.29	55.01	63.89	-8.88	QP
4		0.19344	0.02	9.70	31.22	40.94	53.89	-12.94	Average
5		0.22437	0.02	9.70	25.03	34.74	52.66	-17.91	Average
6		0.22437	0.02	9.70	41.51	51.23	62.66	-11.43	QP
- 7		0.25615	0.02	9.70	40.73	50.45	61.56	-11.11	QP
8		0.25615	0.02	9.70	23.65	33.37	51.56	-18.19	Average
9		0.44679	0.01	9.80	34.25	44.06	56.93	-12.87	QP
10		0.44679	0.01	9.80	17.97	27.78	46.93	-19.16	Average
11		0.92821	0.02	9.80	26.25	36.07	56.00	-19.93	QP
12		0.92821	0.02	9.80	13.36	23.18	46.00	-22.82	Average



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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

Job No. : 6264RF Mode : Transmitting

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 0	0.20289	0.02	9.70	42.89	52.61	63.49	-10.88	QP
2	0.20289	0.02	9.70	30.05	39.77	53.49	-13.72	Average
3	0.23285	0.02	9.70	26.97	36.69	52.35	-15.66	Average
4	0.23285	0.02	9.70	39.25	48.97	62.35	-13.38	QP
5	0.26442	0.01	9.70	24.53	34.24	51.29	-17.05	Average
6	0.26442	0.01	9.70	38.05	47.76	61.29	-13.53	QP
7	0.30348	0.01	9.71	38.73	48.45	60.15	-11.70	QP
8	0.30348	0.01	9.71	22.31	32.03	50.15	-18.12	Average
9	0.40187	0.01	9.80	18.01	27.82	47.81	-19.99	Average
10	0.40187	0.01	9.80	33.99	43.80	57.81	-14.01	QP
11	0.67902	0.02	9.80	28.71	38.53	56.00	-17.47	QP
12	0.67902	0.02	9.80	14.86	24.68	46.00	-21.32	Average

Notes:

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



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5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	KDB558074 D01		
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 4.10 for details		
Exploratory Test Mode:	Transmitting mode		
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;		
	54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps 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				
PK Power (dBm)	10.05	10.19	10.37	10.65				
AV Power (dBm)	7.12	7.25	7.41	7.79				
Mode		802.11g						
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
PK Power (dBm)	10.07	10.16	10.25	10.31	10.42	10.50	10.63	10.70
AV Power (dBm)	6.09	6.24	6.36	6.46	6.56	6.62	6.73	6.85
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
PK Power (dBm)	9.72	9.98	10.07	10.10	10.16	10.21	10.29	10.41
AV Power (dBm)	6.01	6.15	6.20	6.34	6.40	6.51	6.62	6.87
Mode				802.11	n(HT40)			
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
PK Power (dBm)	9.89	10.06	10.19	10.25	10.37	10.51	10.66	10.83
AV Power (dBm)	5.96	6.03	6.10	6.27	6.31	6.43	6.57	6.73

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

	Weasurement Data				
	802.11b mo	de			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.65	30.00	Pass		
Middle	10.34	30.00	Pass		
Highest	9.61	30.00	Pass		
	802.11g mo	de			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.70	30.00	Pass		
Middle	10.43	30.00	Pass		
Highest	9.93	30.00	Pass		
	802.11n(HT20)	mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.41	30.00	Pass		
Middle	9.69	30.00	Pass		
Highest	9.03	30.00	Pass		
	802.11n(HT40)mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	10.83	30.00	Pass		
Middle	10.75	30.00	Pass		
Highest	10.43	30.00	Pass		

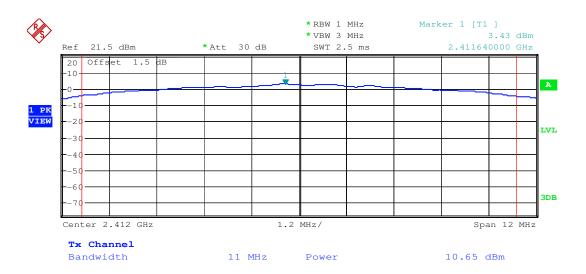


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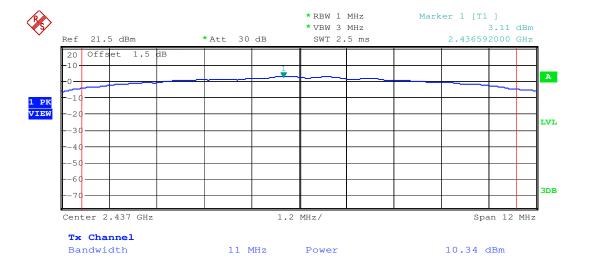
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode:	802.11b	Test channel:	Middle

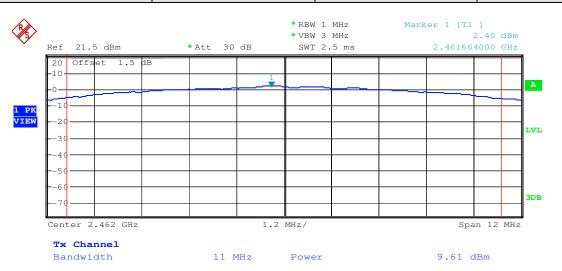




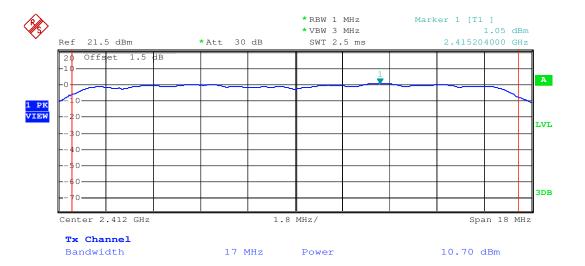
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Test mode: 802.11b Test channel: Highest



Test mode:	802.11g	Test channel:	Lowest
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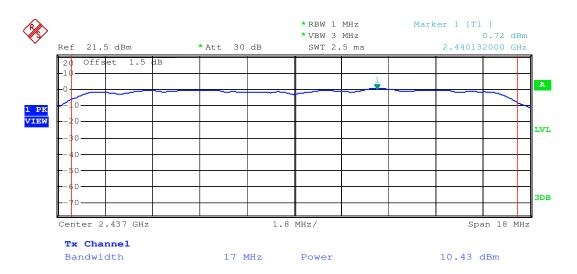
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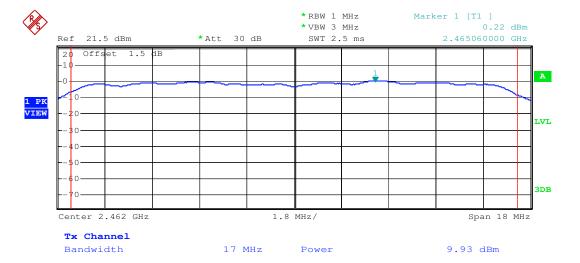
Report No.: SZEM121100626401

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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



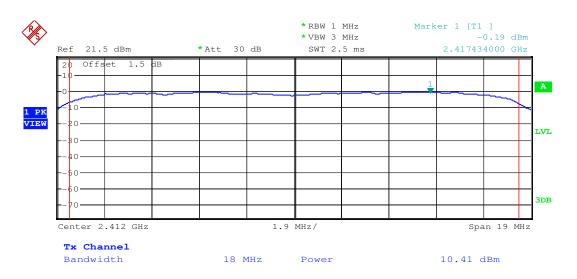




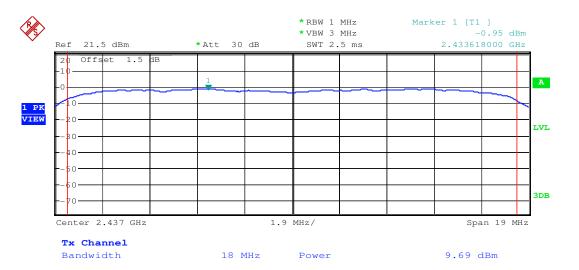
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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode:	802.11n(HT20)	Test channel:	Middle
	00=:::(:::=0)		



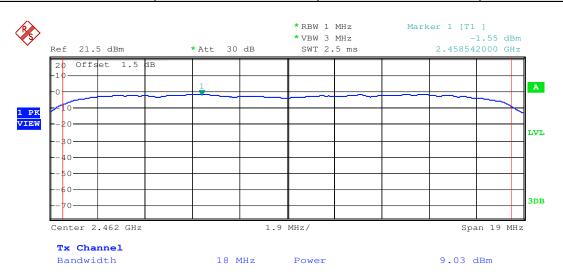
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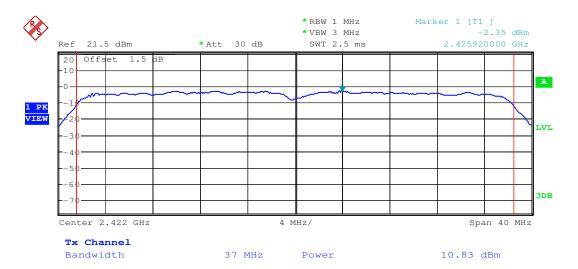
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Test mode: 802.11n(HT20) Test channel: Highest



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



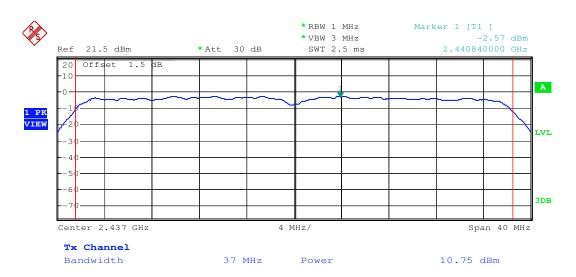
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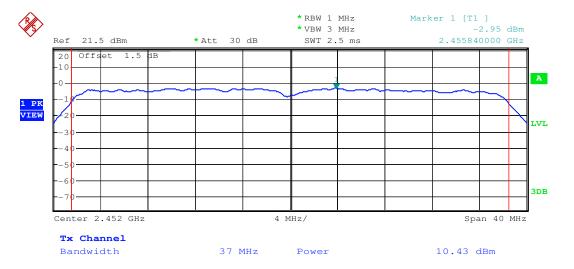
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Test mode: 802.11n(HT40) Test channel: Middle



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

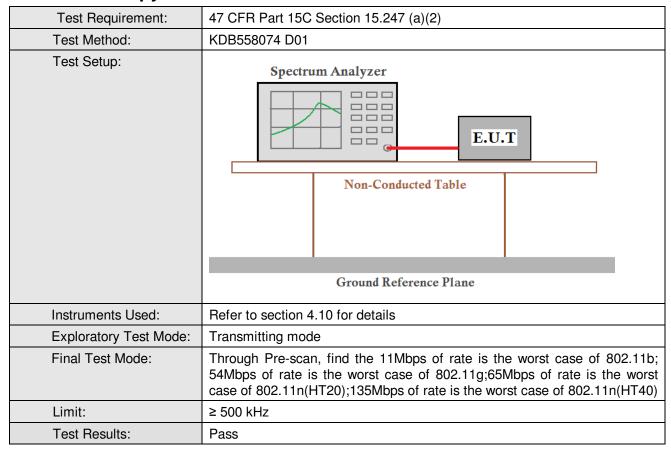




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5.4 6dB Occupy Bandwidth



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Measurement Data

weasurement bata				
	802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	10.92	≥500	Pass	
Middle	10.74	≥500	Pass	
Highest	10.56	≥500	Pass	
	802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	16.74	≥500	Pass	
Middle	16.68	≥500	Pass	
Highest	16.74	≥500	Pass	
	802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	17.88	≥500	Pass	
Middle	17.82	≥500	Pass	
Highest	17.82	≥500	Pass	
802.11n(HT40)mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	36.50	≥500	Pass	
Middle	36.40	≥500	Pass	
Highest	36.40	≥500	Pass	

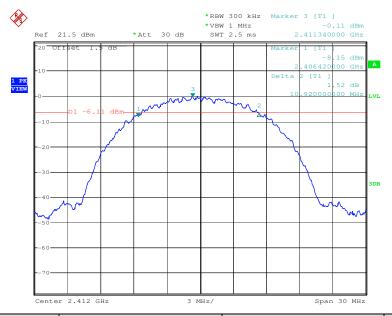


Report No.: SZEM121100626401

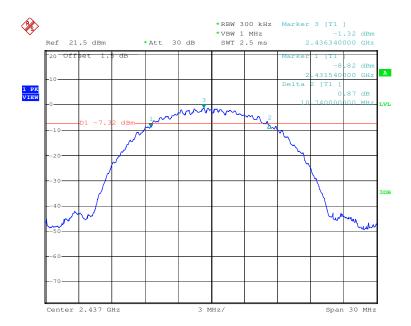
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Test plot as follows:





Test mode: 802.11b Test channel: Middle

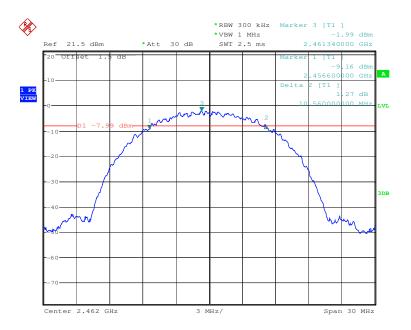




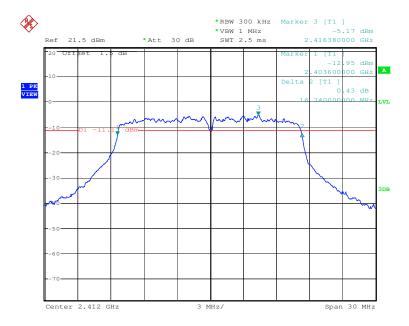
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

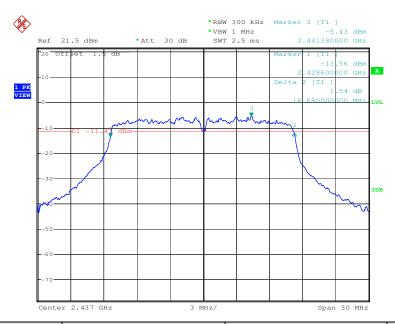




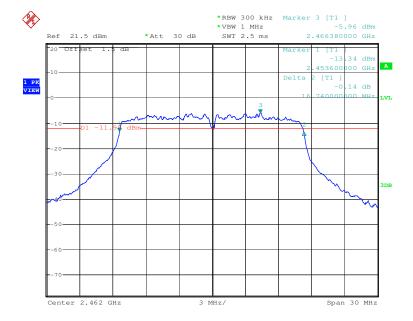
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

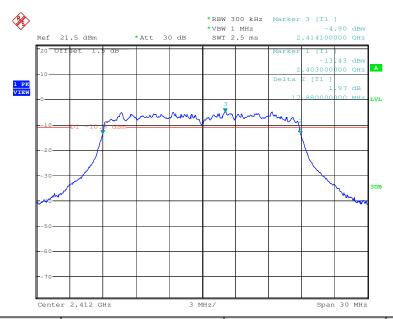




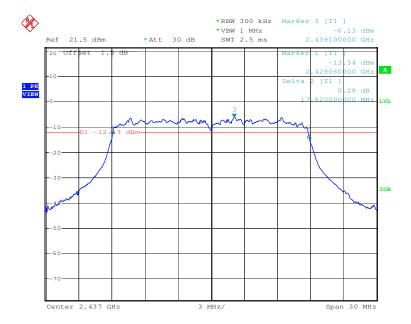
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Test mode: 802.11n(HT20) Test channel: Lowest



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

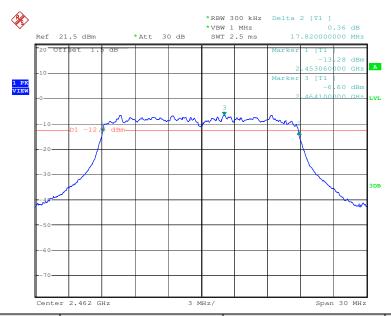




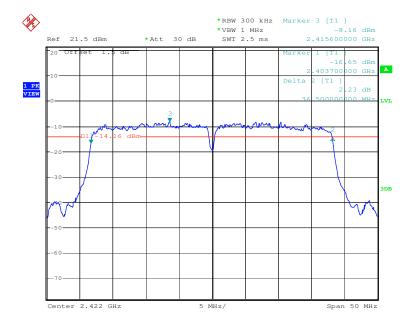
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Test mode: 802.11n(HT20) Test channel: Highest



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



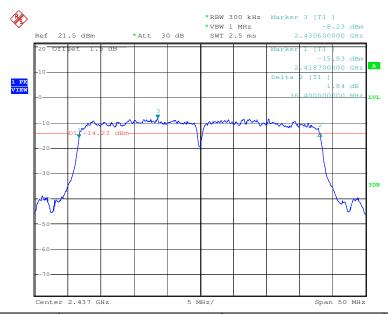




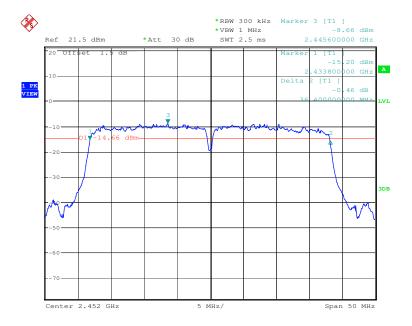
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Test mode: 802.11n(HT40) Test channel: Middle



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





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5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	KDB558074 D01		
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 4.10 for details		
Exploratory Test Mode:	Transmitting mode		
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40)		
Limit:	≤8.00dBm		
Test Results:	Pass		
Remark:	Scale the observed power level to an equivalent level in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where: BWCF = 10log (3kHz/100 kHz = -15.2 dB).		

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Measurement Data

Weasurement Data				
802.11b mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	-19.38	≤8.00	Pass	
Middle	-19.71	≤8.00	Pass	
Highest	-20.34	≤8.00	Pass	
802.11g mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	-25.07	≤8.00	Pass	
Middle	-25.26	≤8.00	Pass	
Highest	-25.75	≤8.00	Pass	
802.11n(HT20) mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	-25.03	≤8.00	Pass	
Middle	-25.74	≤8.00	Pass	
Highest	-26.52	≤8.00	Pass	
802.11n(HT40) mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	-28.54	≤8.00	Pass	
Middle	-28.54	≤8.00	Pass	
Highest	-28.84	≤8.00	Pass	

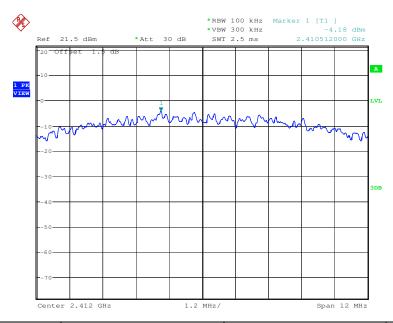


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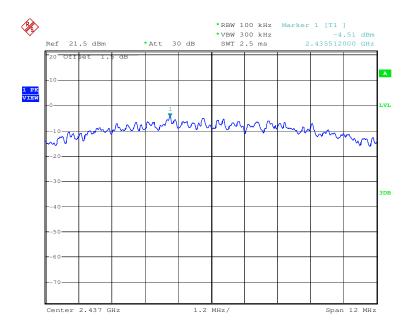
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Test plot as follows:

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

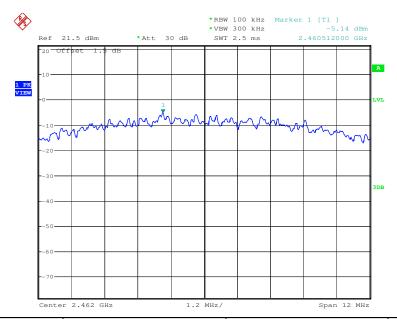




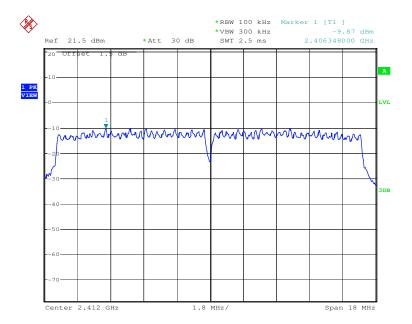
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

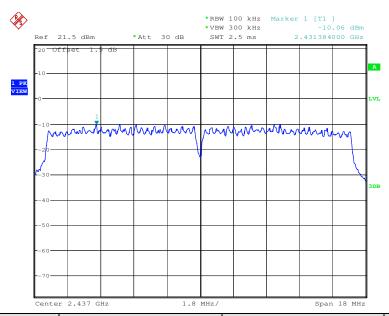




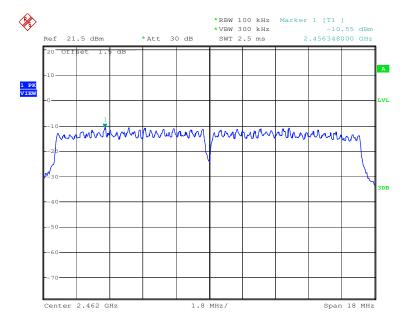
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

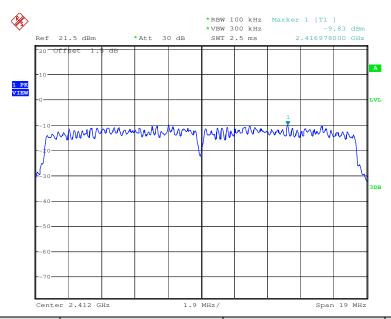




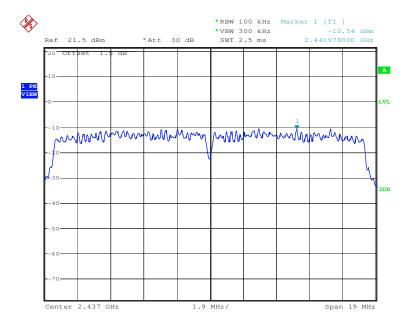
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Test mode: 802.11n(HT20) Test channel: Lowest



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

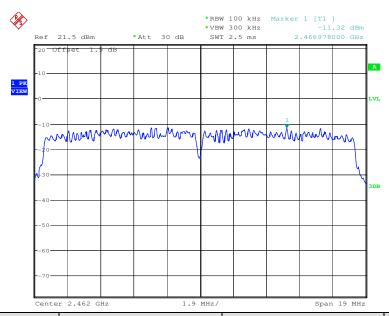




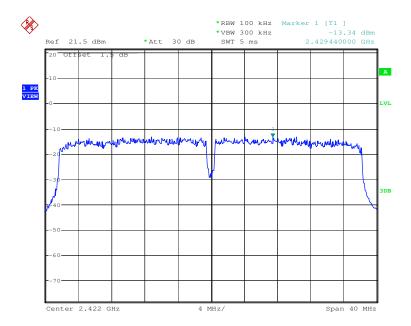
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Test mode: 802.11n(HT20) Test channel: Highest



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



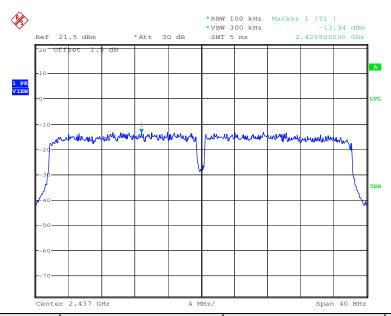
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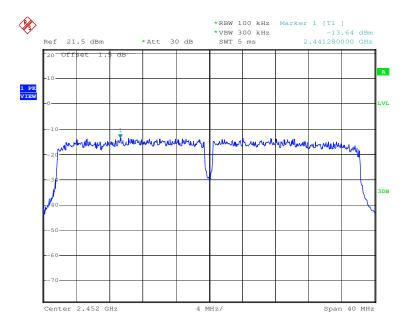
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Test mode: 802.11n(HT40) Test channel: Middle



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



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5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	KDB558074 D01					
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 mode					
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps 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 4.10 for details					
Test Results:	Pass					



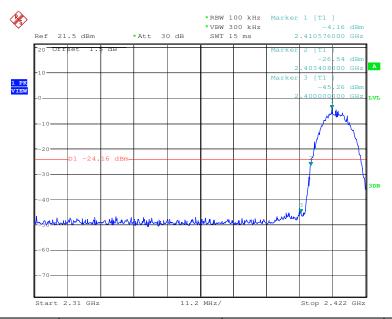


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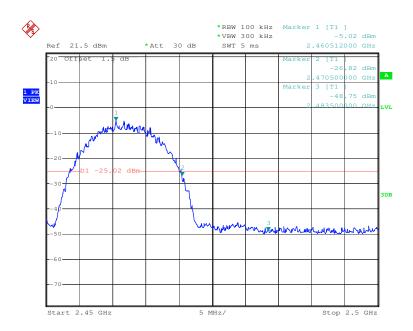
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest

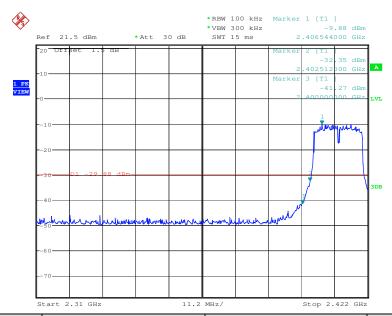




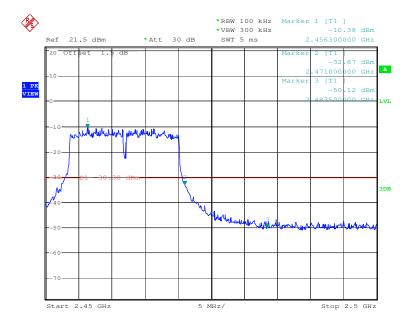
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Test mode: 802.11g Test channel: Lowest



Test mode: 802.11g Test channel: Highest



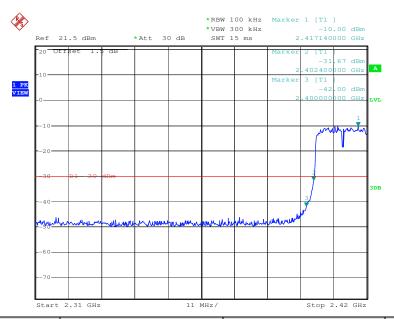
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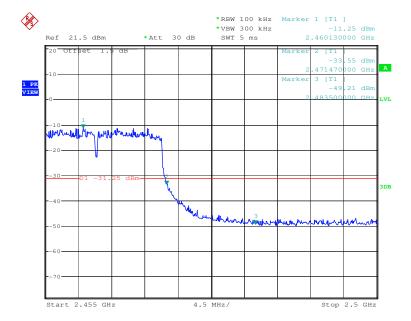
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Test mode: 802.11n(HT20) Test channel: Lowest



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



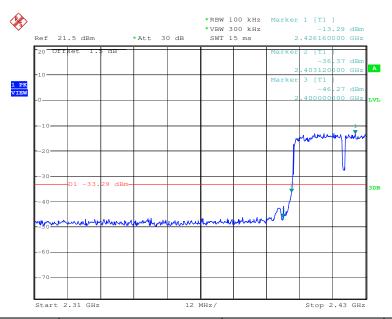
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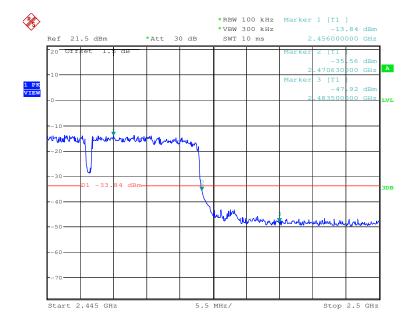
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Test mode: 802.11n(HT40) Test channel: Lowest



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



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5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)					
Test Method:	KDB558074 D01					
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 mode					
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps 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 4.10 for details					
Test Results:	Pass					

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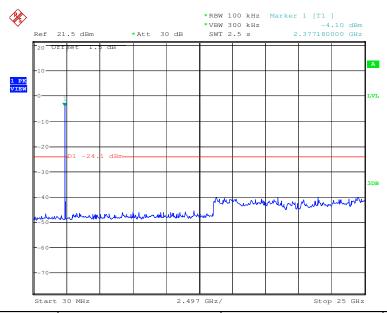


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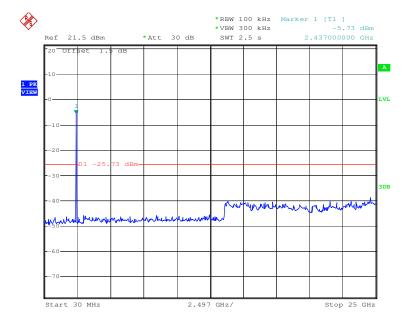
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

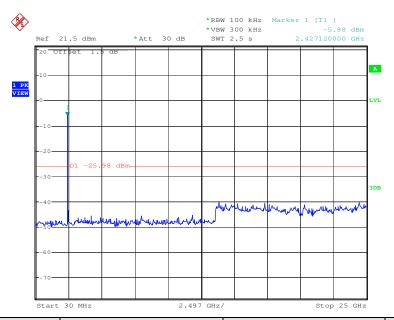




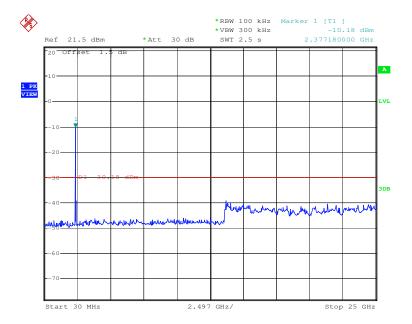
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest

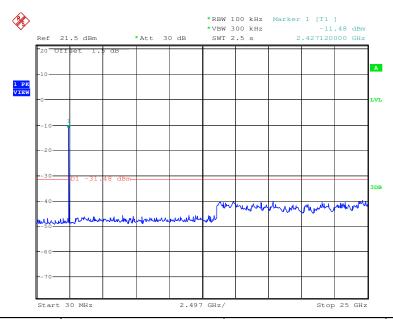




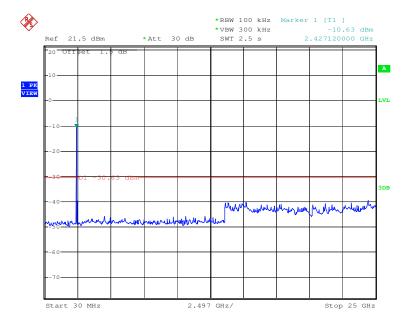
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest

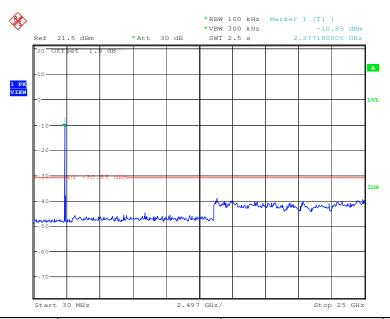




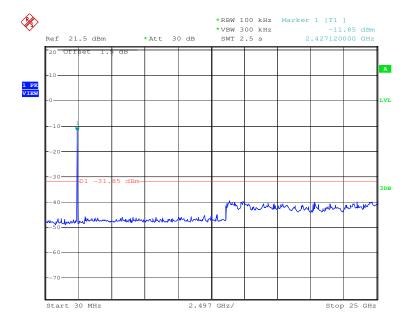
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Test mode: 802.11n(HT20) Test channel: Lowest



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



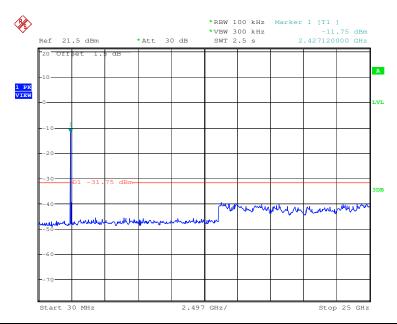
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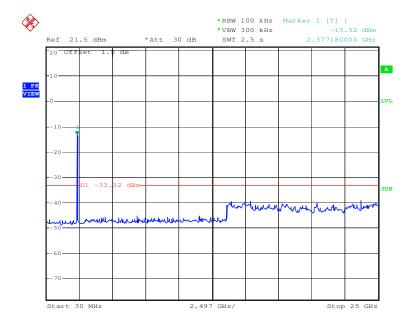
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Test mode: 802.11n(HT20) Test channel: Highest



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



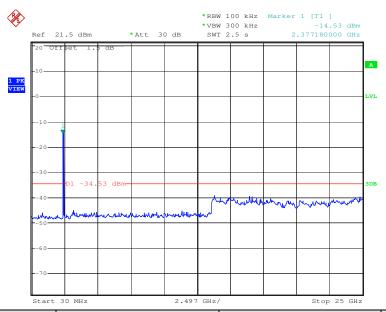




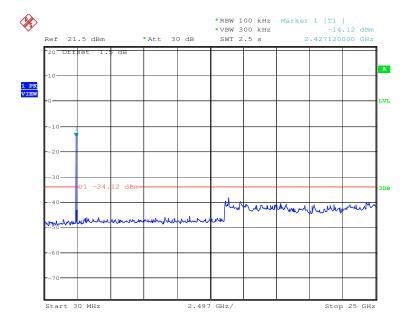
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Test mode: 802.11n(HT40) Test channel: Middle



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



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5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2009								
Test Site:	Measurement Distance: 3m (Semi-Anechoic 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 Idiiz	Peak	1MHz	10Hz	Average				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	Note: 15.35(b), Unless of	herwise specified,	the limit on	peak radio fre	equency				
	emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								

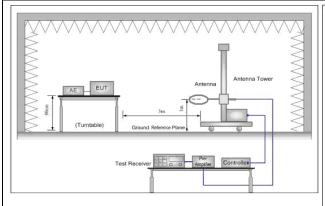
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Test Setup:



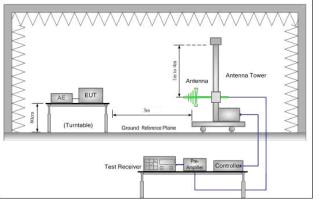


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

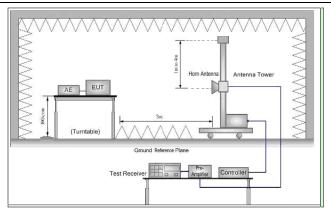


Figure 3. Above 1 GHz

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



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	margin would be re-tested one by one using peak, quasi-peak or average 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. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40)
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

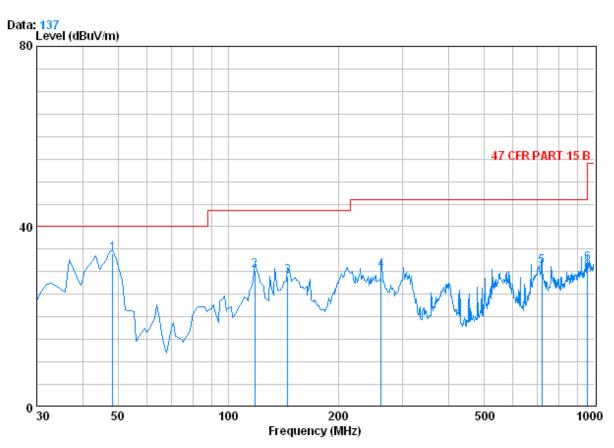


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5.8.1 Radiated emission below 1GHz

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



Condition : 47 CFR PART 15 B 3m 3142C NEW VERTICAL

Job No. : 6264RF Mode : Transmitting

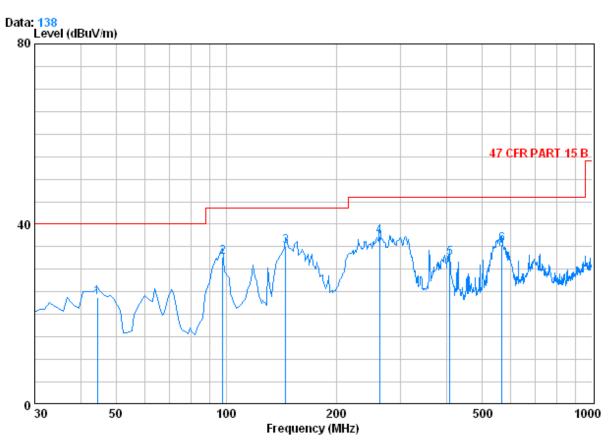
		Cable	intenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0	48.430	0.77	8.18	27.29	52.27	33.93	40.00	-6.07
2	118.270	1.25	7.63	27.08	48.46	30.25	43.50	-13.25
3	145.430	1.31	9.00	26.93	45.60	28.98	43.50	-14.52
4	261.830	1.73	9.10	26.50	45.87	30.19	46.00	-15.81
5	718.700	2.96	17.10	27.39	38.47	31.14	46.00	-14.86
6	959.260	3.66	21.10	26.51	33.57	31.83	46.00	-14.17



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Test mode:	Transmitting	Horizontal
Tool Illoud.	Transmitting	Horizontal



Condition : 47 CFR PART 15 B 3m 3142C NEW HORIZONTAL

Job No. : 6264RF Mode : Transmitting

		Ü	Cable	lntenna	Preamp	Read		Limit	Over
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1		44.550	0.70	9.63	27.31	40.81	23.83	40.00	-16.17
2	0	97.900	1.18	6.20	27.20	52.49	32.66	43.50	-10.84
3	0	145.430	1.31	9.00	26.93	51.69	35.07	43.50	-8.43
4	0	262.800	1.74	9.20	26.50	52.74	37.18	46.00	-8.82
5		408.300	2.24	11.55	27.19	45.94	32.54	46.00	-13.46
6	0	567.380	2.67	14.48	27.59	45.97	35.53	46.00	-10.47



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5.8.2 Transmitter emission above 1GHz

Test mode:	802	2.11b	Test ch	annel:	Lowest	Rema	rk:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line	I I Imit	Polarizatio n
3709.691	3.91	33.45	40.83	48.20	44.73	74	-29.27	Vertical
4821.757	4.70	34.68	41.64	50.17	47.91	74	-26.09	Vertical
6109.670	5.15	35.84	40.83	48.62	48.78	74	-25.22	Vertical
7489.599	6.10	36.00	39.62	48.21	50.69	74	-23.31	Vertical
8703.294	6.17	36.36	38.59	46.64	50.58	74	-23.42	Vertical
10560.940	6.11	38.32	37.68	44.77	51.52	74	-22.48	Vertical
3249.760	3.53	33.30	40.48	48.18	44.53	74	-29.47	Horizontal
4821.757	4.70	34.68	41.64	52.02	49.76	74	-24.24	Horizontal
6235.364	5.19	35.98	40.71	48.39	48.85	74	-25.15	Horizontal
7394.878	6.00	35.96	39.71	47.93	50.18	74	-23.82	Horizontal
8187.502	6.20	36.08	39.03	47.79	51.04	74	-22.96	Horizontal
10062.310	5.99	37.78	37.47	45.57	51.87	74	-22.13	Horizontal

Test mode:	802	802.11b		annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3570.714	3.79	33.28	40.72	47.25	43.60	74	-30.40	Vertical
4366.067	4.41	34.83	41.30	46.78	44.72	74	-29.28	Vertical
5099.487	4.81	34.50	41.70	48.01	45.62	74	-28.38	Vertical
6331.329	5.21	36.10	40.63	47.72	48.40	74	-25.60	Vertical
7227.389	5.81	35.89	39.85	46.63	48.48	74	-25.52	Vertical
8973.250	6.16	36.57	38.34	45.92	50.31	74	-23.69	Vertical
3176.155	3.46	33.33	40.44	48.94	45.29	74	-28.71	Horizontal
3747.656	3.95	33.51	40.86	48.47	45.07	74	-28.93	Horizontal
4641.118	4.59	34.98	41.51	48.95	47.01	74	-26.99	Horizontal
5910.798	5.09	35.56	41.01	48.98	48.62	74	-25.38	Horizontal
7489.599	6.10	36.00	39.62	48.46	50.94	74	-23.06	Horizontal
9346.262	6.06	37.01	38.03	46.65	51.69	74	-22.31	Horizontal



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Test mode:	802	.11b	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3570.714	3.79	33.28	40.72	47.43	43.78	74	-30.22	Vertical
4920.955	4.74	34.51	41.71	49.48	47.02	74	-26.98	Vertical
6094.137	5.15	35.82	40.84	48.77	48.90	74	-25.10	Vertical
7413.726	6.02	35.97	39.69	47.78	50.08	74	-23.92	Vertical
8973.250	6.16	36.57	38.34	46.85	51.24	74	-22.76	Vertical
9859.472	5.98	37.56	37.58	45.42	51.38	74	-22.62	Vertical
3570.714	3.79	33.28	40.72	47.15	43.50	74	-30.50	Horizontal
4536.000	4.52	35.14	41.43	48.97	47.20	74	-26.80	Horizontal
4920.955	4.74	34.51	41.71	52.70	50.24	74	-23.76	Horizontal
5910.798	5.09	35.56	41.01	48.47	48.11	74	-25.89	Horizontal
7394.878	6.00	35.96	39.71	48.23	50.48	74	-23.52	Horizontal
8703.294	6.17	36.36	38.59	47.10	51.04	74	-22.96	Horizontal

Test mode:	8	02.11g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	_	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3112.129	3.41	33.36	40.38	47.41	43.80	74	-30.20	Vertical
4170.530	4.28	34.31	41.16	48.25	45.68	74	-28.32	Vertical
4594.102	4.55	35.06	41.47	47.50	45.64	74	-28.36	Vertical
5518.199	4.96	34.93	41.34	48.02	46.57	74	-27.43	Vertical
6478.053	5.25	36.26	40.51	47.83	48.83	74	-25.17	Vertical
7643.683	6.23	36.00	39.49	47.78	50.52	74	-23.48	Vertical
3208.660	3.49	33.32	40.45	48.03	44.39	74	-29.61	Horizontal
4455.890	4.47	35.06	41.37	48.61	46.77	74	-27.23	Horizontal
5230.963	4.86	34.63	41.58	47.95	45.86	74	-28.14	Horizontal
5986.509	5.12	35.67	40.94	48.28	48.13	74	-25.87	Horizontal
6992.135	5.52	35.82	40.07	48.13	49.40	74	-24.60	Horizontal
8462.975	6.18	36.19	38.78	47.69	51.28	74	-22.72	Horizontal



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Test mode:	802	.11g	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3216.838	3.50	33.32	40.47	47.63	43.98	74	-30.02	Vertical
4444.562	4.46	35.06	41.36	47.47	45.63	74	-28.37	Vertical
5230.963	4.86	34.63	41.58	47.92	45.83	74	-28.17	Vertical
6544.350	5.27	36.27	40.45	47.54	48.63	74	-25.37	Vertical
8462.975	6.18	36.19	38.78	46.68	50.27	74	-23.73	Vertical
9441.913	6.03	37.14	37.94	45.94	51.17	74	-22.83	Vertical
3088.453	3.39	33.37	40.37	47.46	43.85	74	-30.15	Horizontal
4138.802	4.25	34.22	41.14	47.67	45.00	74	-29.00	Horizontal
5191.168	4.84	34.60	41.62	48.72	46.54	74	-27.46	Horizontal
6299.178	5.20	36.06	40.66	48.54	49.14	74	-24.86	Horizontal
7394.878	6.00	35.96	39.71	47.90	50.15	74	-23.85	Horizontal
8882.347	6.16	36.51	38.42	46.85	51.10	74	-22.90	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
2875.986	3.25	33.21	40.21	48.04	44.29	74	-29.71	Vertical
3953.443	4.13	33.76	41.00	47.40	44.29	74	-29.71	Vertical
4834.046	4.71	34.65	41.65	47.69	45.40	74	-28.60	Vertical
6494.564	5.26	36.28	40.50	48.19	49.23	74	-24.77	Vertical
7781.104	6.22	36.00	39.38	47.58	50.42	74	-23.58	Vertical
9859.472	5.98	37.56	37.58	45.77	51.73	74	-22.27	Vertical
3168.080	3.46	33.33	40.42	46.75	43.12	74	-30.88	Horizontal
4055.371	4.20	33.99	41.08	47.02	44.13	74	-29.87	Horizontal
4983.987	4.77	34.43	41.77	48.34	45.77	74	-28.23	Horizontal
6140.854	5.16	35.86	40.79	48.21	48.44	74	-25.56	Horizontal
7045.735	5.58	35.82	40.02	48.68	50.06	74	-23.94	Horizontal
8996.121	6.16	36.59	38.32	47.23	51.66	74	-22.34	Horizontal



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Test mode:	8	02.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3026.195	3.33	33.39	40.33	48.41	44.80	74	-29.20	Vertical
4055.371	4.20	33.99	41.08	48.12	45.23	74	-28.77	Vertical
4501.492	4.49	35.20	41.40	48.76	47.05	74	-26.95	Vertical
6412.427	5.23	36.18	40.56	48.74	49.59	74	-24.41	Vertical
7470.558	6.08	35.99	39.64	48.78	51.21	74	-22.79	Vertical
9370.083	6.05	37.03	37.99	46.63	51.72	74	-22.28	Vertical
3176.155	3.46	33.33	40.44	48.76	45.11	74	-28.89	Horizontal
4223.950	4.31	34.45	41.21	48.39	45.94	74	-28.06	Horizontal
4971.316	4.76	34.43	41.75	48.22	45.66	74	-28.34	Horizontal
6299.178	5.20	36.06	40.66	49.82	50.42	74	-23.58	Horizontal
7338.621	5.94	35.94	39.75	47.83	49.96	74	-24.04	Horizontal
8904.986	6.16	36.52	38.40	46.32	50.60	74	-23.40	Horizontal

Test mode:	802	.11n(HT20)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3738.129	3.95	33.49	40.84	49.08	45.68	74	-28.32	Vertical
5284.497	4.88	34.68	41.55	49.33	47.34	74	-26.66	Vertical
6974.358	5.50	35.83	40.08	48.63	49.88	74	-24.12	Vertical
7566.249	6.19	36.00	39.56	48.38	51.01	74	-22.99	Vertical
8377.241	6.19	36.15	38.87	47.73	51.20	74	-22.80	Vertical
9346.262	6.06	37.01	38.03	46.68	51.72	74	-22.28	Vertical
3143.979	3.44	33.34	40.41	48.68	45.05	74	-28.95	Horizontal
4444.562	4.46	35.06	41.36	48.61	46.77	74	-27.23	Horizontal
5338.579	4.90	34.73	41.50	49.09	47.22	74	-26.78	Horizontal
6283.164	5.20	36.04	40.68	49.24	49.80	74	-24.20	Horizontal
7566.249	6.19	36.00	39.56	48.33	50.96	74	-23.04	Horizontal
8904.986	6.16	36.52	38.40	47.55	51.83	74	-22.17	Horizontal



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Test mode:		802.	.11n(HT20)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cak Lo: (dE	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3112.129	3.4	41	33.36	40.38	48.35	44.74	74	-29.26	Vertical
4055.371	4.2	20	33.99	41.08	47.39	44.50	74	-29.50	Vertical
4871.103	4.7	72	34.59	41.68	47.59	45.22	74	-28.78	Vertical
5560.500	4.9	97	34.98	41.30	49.51	48.16	74	-25.84	Vertical
6494.564	5.2	26	36.28	40.50	48.81	49.85	74	-24.15	Vertical
8104.559	6.2	20	36.04	39.10	47.64	50.78	74	-23.22	Vertical
3088.453	3.3	39	33.37	40.37	48.07	44.46	74	-29.54	Horizontal
3588.939	3.8	31	33.30	40.73	48.85	45.23	74	-28.77	Horizontal
4399.537	4.4	12	34.92	41.33	47.91	45.92	74	-28.08	Horizontal
5448.410	4.9	94	34.85	41.40	48.69	47.08	74	-26.92	Horizontal
6678.987	5.3	30	36.13	40.33	48.53	49.63	74	-24.37	Horizontal
8042.903	6.2	20	36.01	39.15	48.31	51.37	74	-22.63	Horizontal

Test mode:	802	2.11n(HT40)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3049.394	3.35	33.38	40.34	48.78	45.17	74	-28.83	Vertical
3943.392	4.11	33.74	41.00	48.07	44.92	74	-29.08	Vertical
4594.102	4.55	35.06	41.47	48.33	46.47	74	-27.53	Vertical
5504.170	4.95	34.90	41.35	49.61	48.11	74	-25.89	Vertical
6428.771	5.24	36.20	40.55	49.68	50.57	74	-23.43	Vertical
8973.250	6.16	36.57	38.34	46.14	50.53	74	-23.47	Vertical
3376.244	3.64	33.25	40.58	48.93	45.24	74	-28.76	Horizontal
4321.837	4.37	34.69	41.28	48.32	46.10	74	-27.90	Horizontal
5086.523	4.81	34.48	41.71	49.34	46.92	74	-27.08	Horizontal
6172.197	5.17	35.90	40.78	49.20	49.49	74	-24.51	Horizontal
7860.737	6.21	36.00	39.31	48.89	51.79	74	-22.21	Horizontal
9251.580	6.08	36.89	38.11	46.99	51.85	74	-22.15	Horizontal



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Test mode:	80	2.11n(HT40)	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3700.260	3.91	33.45	40.81	49.64	46.19	74	-27.81	Vertical
4455.890	4.47	35.06	41.37	48.86	47.02	74	-26.98	Vertical
6315.233	5.21	36.08	40.64	49.24	49.89	74	-24.11	Vertical
7624.250	6.23	36.00	39.51	48.41	51.13	74	-22.87	Vertical
9346.262	6.06	37.01	38.03	46.18	51.22	74	-22.78	Vertical
10480.590	6.09	38.28	37.65	44.30	51.02	74	-22.98	Vertical
3143.979	3.44	33.34	40.41	49.59	45.96	74	-28.04	Horizontal
3893.520	4.07	33.68	40.95	49.08	45.88	74	-28.12	Horizontal
4971.316	4.76	34.43	41.75	49.63	47.07	74	-26.93	Horizontal
6219.512	5.19	35.96	40.73	49.16	49.58	74	-24.42	Horizontal
6956.627	5.48	35.85	40.08	49.41	50.66	74	-23.34	Horizontal
8725.477	6.17	36.37	38.55	47.65	51.64	74	-22.36	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2997.500	3.32	33.40	40.30	47.63	44.05	74	-29.95	Vertical
3702.500	3.91	33.45	40.81	48.29	44.84	74	-29.16	Vertical
4266.500	4.34	34.55	41.23	47.95	45.61	74	-28.39	Vertical
5077.250	4.80	34.48	41.71	48.55	46.12	74	-27.88	Vertical
6099.500	5.15	35.82	40.84	48.74	48.87	74	-25.13	Vertical
8367.250	6.19	36.14	38.87	47.01	50.47	74	-23.53	Vertical
3112.129	3.41	33.36	40.38	47.68	44.07	74	-29.93	Horizontal
4399.537	4.42	34.92	41.33	48.14	46.15	74	-27.85	Horizontal
5518.199	4.96	34.93	41.34	48.73	47.28	74	-26.72	Horizontal
6347.466	5.22	36.12	40.63	48.64	49.35	74	-24.65	Horizontal
8125.215	6.20	36.05	39.08	47.90	51.07	74 -22.93		Horizontal
9465.979	6.02	37.16	37.91	46.67	51.94	74	-22.06	Horizontal



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Remark:

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

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

- 2) The disturbance above 11GHz 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.
- 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.

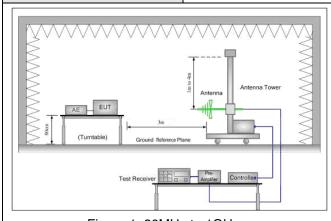


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5.9 Band Edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2009	ANSI C63.10 2009								
Test Site:	Measurement Distance: 3r	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit:	Frequency	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							
	Abovo 1CUz	54.0	Average Value							
	Above IGHZ	Above 1GHz 74.0 Peak Value								
Test Setup:										



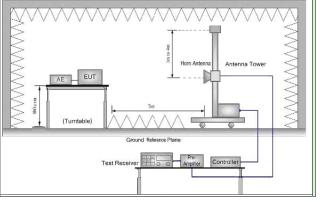


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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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 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. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
	 i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b;54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40)
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

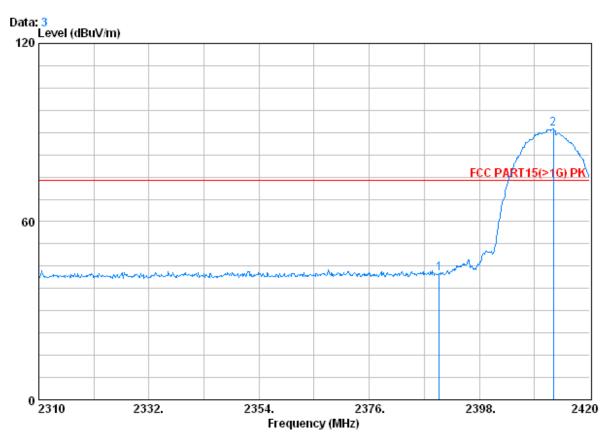


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Test plot as follows:

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



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : B 2412 BANDEDGE

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 @	2390.000 2412.740			39.85 39.86				

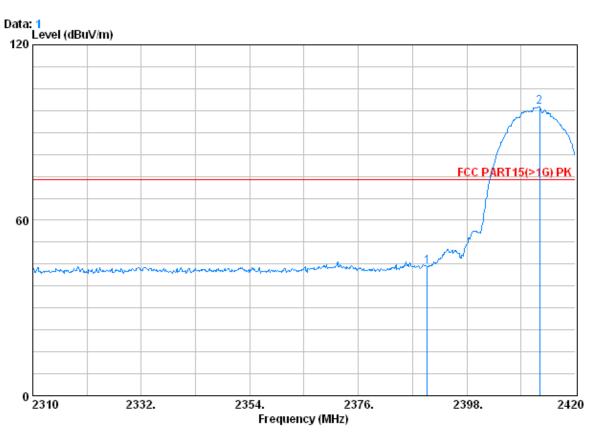
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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : B 2412 BANDEDGE

		Cable	lntenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 0	2390.000 2412.740						74.00 74.00	
2 0	2412.740	2.99	32.54	39.86	103.21	98.88	74.00	24

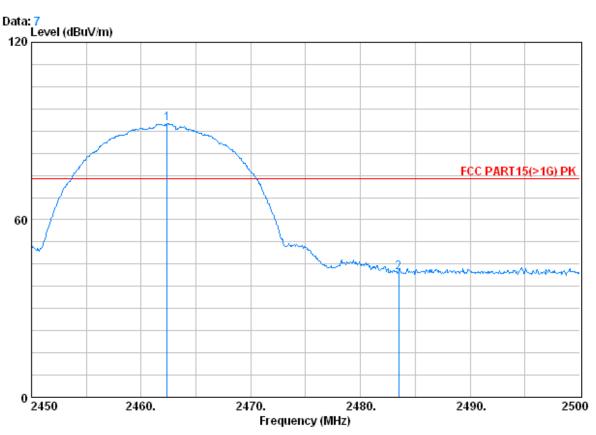
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode: B 2462 BANDEDGE

		CableAntenna		Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2462.350	3.02	32.64	39.91	96.77	92.52	74.00	18.52	
2	2483.500	3.03	32.67	39.92	46.51	42.29	74.00	-31.71	

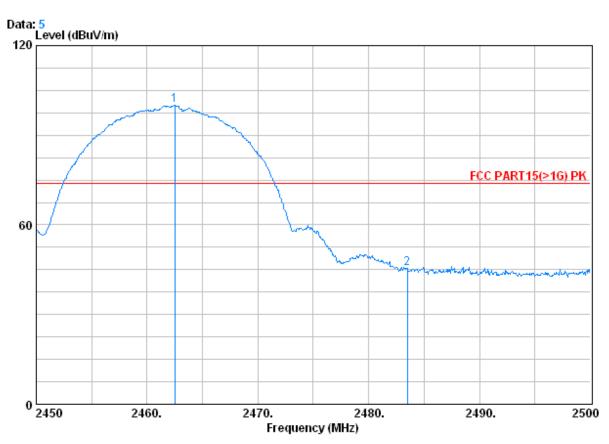
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : B 2462 BANDEDGE

1040	Freq			-	Read Level			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0	2462.500	3.02	32.64	39.91	104.29	100.04	74.00	26.04
2	2483.500	3.03	32.67	39.92	49.69	45.47	74.00	-28.53

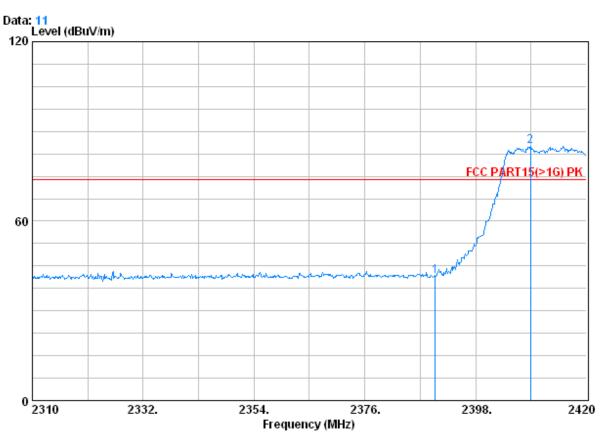
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : G 2412 BANDEDGE

	Freq	CableAntenna Loss Factor		•				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 X	2389.970 2408.890			39.85 39.86				

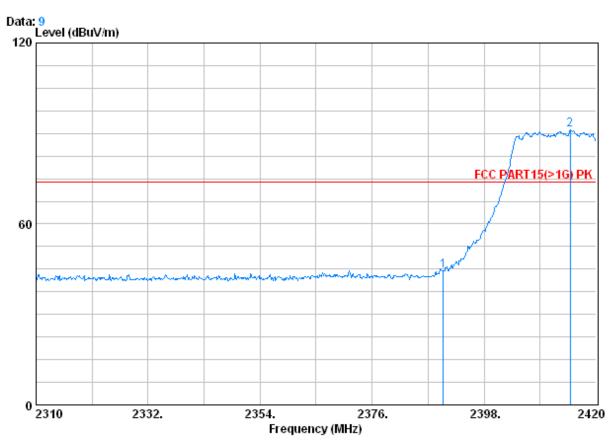




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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : G 2412 BANDEDGE

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 @	2390.000 2414.940			39.85 39.86				

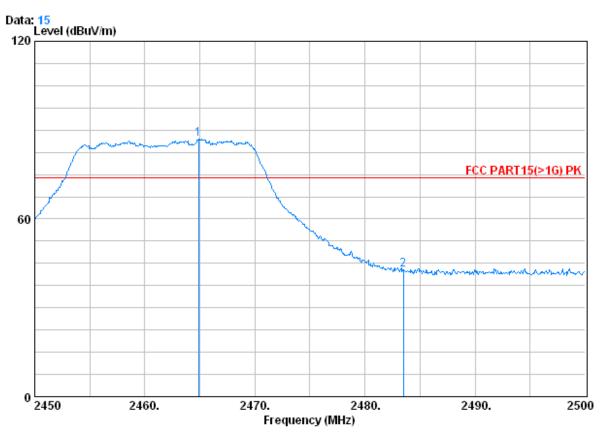
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : G 2462 BANDEDGE

	Freq			Preamp Factor				Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 @ 2	2464.900 2483.500								

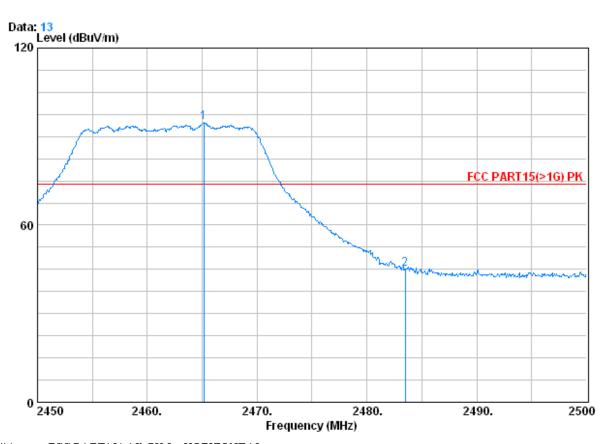
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : G 2462 BANDEDGE

.040	Freq			Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0 2	2465.150 2483.500			39.91 39.92				

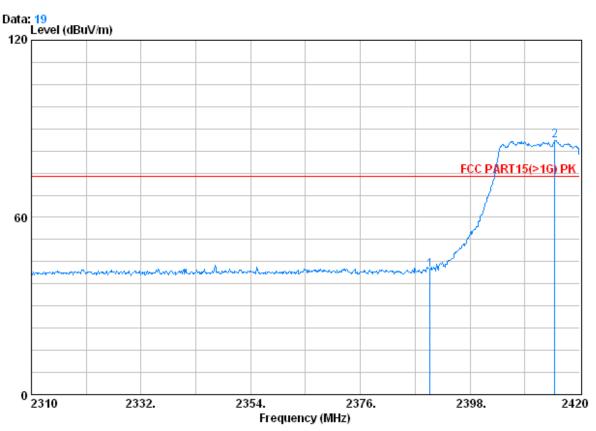
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : N(HT20) 2412 BANDEDGE

		`	Freq			Preamp Factor				
			MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	Х		2390.000 2415.050			39.85 39.86				

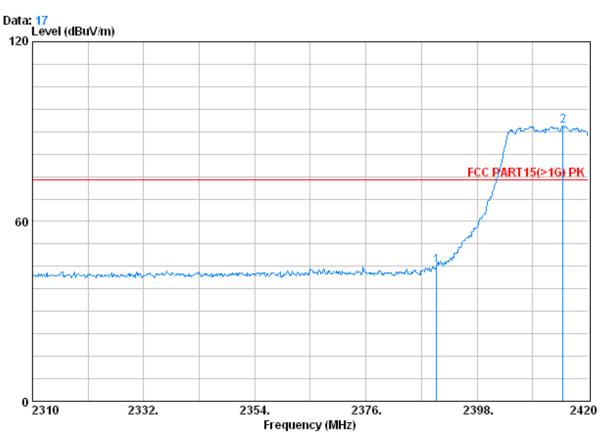
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode: N(HT20) 2412 BANDEDGE

	`	Freq			Preamp Factor				
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 @		2390.000 2415.050			39.85 39.86				

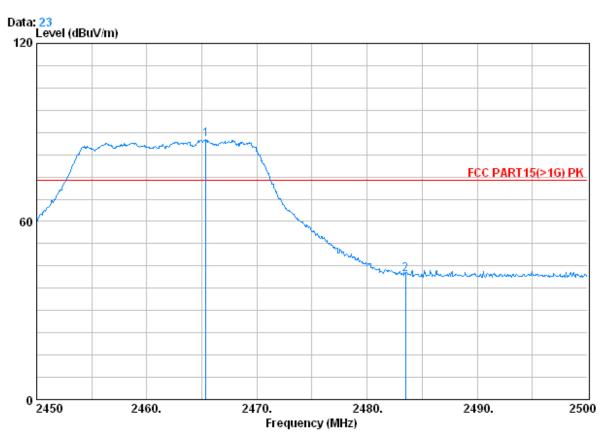
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : N(HT20) 2462 BANDEDGE

		Freq			Preamp Factor				
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	Х	2465.350	3.02	32.64	39.91	91.80	87.55	74.00	13.55
2		2483.500	3.03	32.67	39.92	46.56	42.34	74.00	-31.66

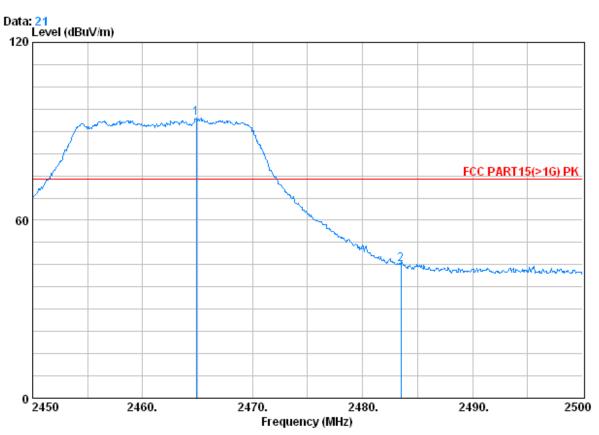
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : N(HT20) 2462 BANDEDGE

		Freq	CableAntenna Loss Factor		•				Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0	2464.900	3.02	32.64	39.91	98.68	94.43	74.00	20.43	
2		2483.500	3.03	32.67	39.92	49.26	45.04	74.00	-28.96	

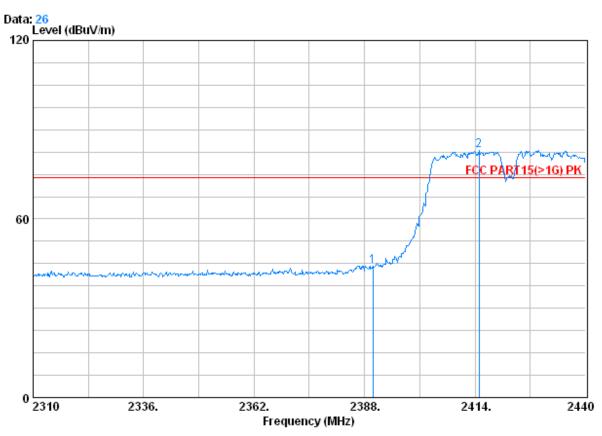
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : N(HT40) 2422 BANDEDGE

1046	. 11(111-0) 2422 011110.							
		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	48.43	44.08	74.00	-29.92
2	X 2414.910	2.99	32.54	39.86	87.31	82.98	74.00	8.98

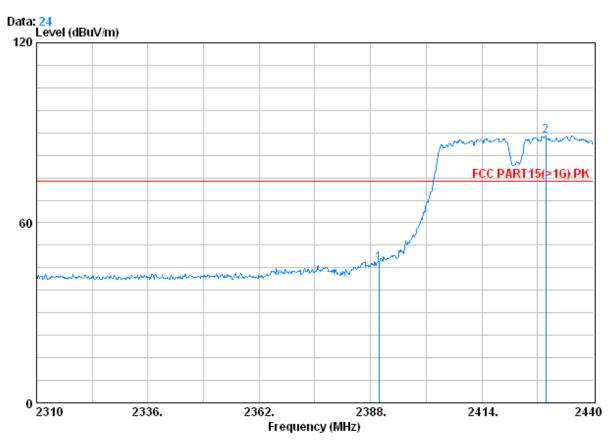
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : N(HT40) 2422 BANDEDGE

		CableAnten			Preamp	Read		Limit	Over	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2390.000	2.98	32.51	39.85	50.81	46.45	74.00	-27.55	
2	X	2428.950	3.00	32.58	39.88	93.37	89.07	74.00	15.07	

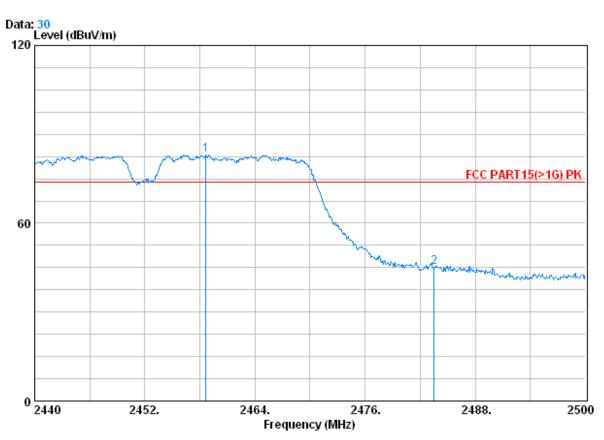
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Worse case mode: | 802.11n(HT40) | Test channel: | Highest | Remark: | Peak | Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6264RF

Mode : N(HT40) 2452 BANDEDGE

	` '	Freq			Preamp Factor				
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	_	458.660 483.500			39.91 39.92				

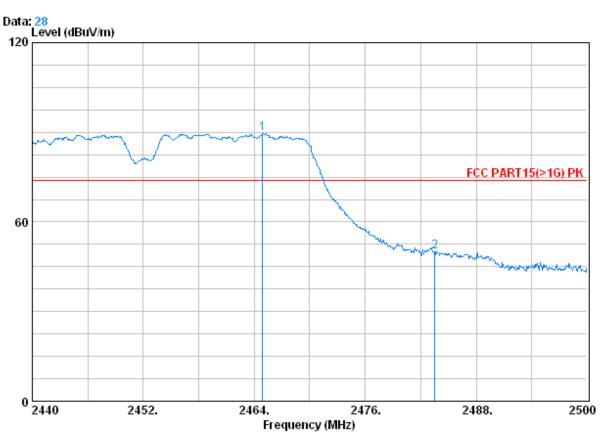




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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6264RF

Mode : N(HT40) 2452 BANDEDGE

,	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X 2	2464.900 2483.500			39.91 39.92				

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

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.