

Report No.: SZEM120700397001

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

District, Shenzhen, Guangdong, China 518057

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FCC REPORT

Application No: SZEM1207003970RF

Applicant: Disruptive Ltd. **Manufacturer:** Disruptive Ltd.

Factory: Dong Guan Tai Sing Audio Technology Ltd.

Product Name: AirZone Series 3

Model No.(EUT): PG733US
FCC ID: YNKPG733

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

Date of Receipt: 2012-08-10

Date of Test: 2012-08-16 to 2012-09-14

Date of Issue: 2012-10-11

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	
Antonno Boguiroment	47 CFR Part 15, Subpart C Section	KDB558074 D01	DACC	
Antenna Requirement	15.203/15.247 (c)	ANSI C63.10 2009	PASS	
AC Power Line	47 CFR Part 15, Subpart C Section			
Conducted	15.207	ANSI C63.10 2009	PASS	
Emission	15.207			
Conducted Peak Output	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS	
Power	15.247 (b)(3)	ANSI C63.10 2009	PASS	
6dB Occupied	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS	
Bandwidth	15.247 (a)(2)	ANSI C63.10 2009	PASS	
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01	DACC	
Power Spectral Density		ANSI C63.10 2009	PASS	
Band-edge for RF	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS	
Conducted Emissions	15.247(d)	ANSI C63.10 2009	FASS	
RF Conducted Spurious	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS	
Emissions	15.247(d)	ANSI C63.10 2009	PASS	
Radiated Spurious	47 CFR Part 15, Subpart C Section	KDB558074 D01	PASS	
Emissions	15.205/15.209	ANSI C63.10 2009	rass	
Band Edge (Radiated	47 CFR Part 15, Subpart C Section	KDB558074 D01	DASS	
Emission)	15.205/15.209	ANSI C63.10 2009	PASS	

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SGS-CSTC Standards Technical Services Ltd.

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4 General Information

4.1 Client Information

Applicant:	Disruptive Ltd.
Address of Applicant:	Windsor House, Turnpike Road, High Wycombe, Bucks, HP12 3NR,
	United Kingdom
Manufacturer:	Disruptive Ltd.
Address of Manufacturer:	Windsor House, Turnpike Road, High Wycombe, Bucks, HP12 3NR,
	United Kingdom
Factory:	Dong Guan Tai Sing Audio Technology Ltd.
Address of Factory:	Tai Sing Industrial Road, Bai Zhou Bian Village, Dong Cheng,
	Dongguan City, Guangdong Province, P.R. China

4.2 General Description of EUT

Product Name:	AirZone Series 3
Model No.:	PG733US
Trade Mark:	Gear4
Operation Frequency:	IEEE 802.11b/g: 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)
Sample Type:	Fixed production
Antenna Type:	Dedicated
Antenna Gain:	2.0dBi
Power Supply:	MODEL: EFA03601200300UL
	INPUT: 100-240V~ 50/60Hz max. 1A
	OUTPUT: 12V === 3.0A
Test Voltage:	AC 230V/50Hz



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Operation Frequency each of channel(802.11b/g)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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

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



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4.3 Test Environment and Mode

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	50 % RH			
Atmospheric Pressure:	1006 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.
iPod	Apple	A1199

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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4.10Test Instruments List

RE i	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	2012-10-29		
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29		
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2012-10-29		
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	2012-11-26		
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	2012-10-23		
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2012-10-27		
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2013-05-17		
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2012-10-23		
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2013-06-04		

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	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	2012-10-23	
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2013-5-17	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2012-11-11	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2012-11-11	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2012-11-11	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2013-5-17	
8	Coaxial Cable	SGS	N/A	SEL0025	2013-05-29	
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2012-10-23	
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2012-10-27	
11	Barometer	Chang Chun	DYM3	SEL0088	2013-05-24	

RF c	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	2012-10-23		
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2012-10-27		
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2012-10-23		
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	2012-10-23		
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2013-05-17		
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2012-11-29		

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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:

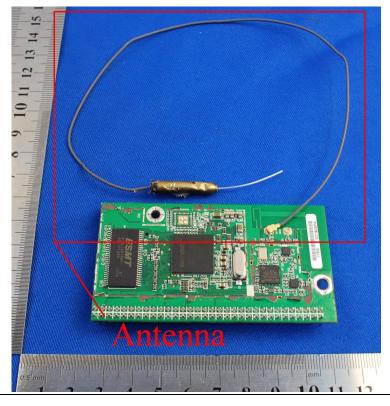
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.0dBi.





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5.2 Conducted Emissions

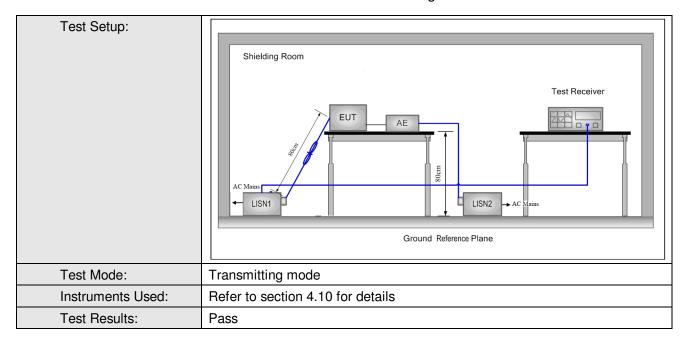
Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2009			
Test Frequency Range:	150kHz to 30MHz			
Limit:	Francisco (MIII-)	Limit (d	lBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithm	n of the frequency.		
Test Procedure:	The mains terminal disturb room.	_		beb
	 The EUT was connected to Impedance Stabilization linear 	·	•	5Ω
	impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the reference plane in the same way as the LISN 1 for the unit being measured multiple socket outlet strip was used to connect multiple power a			
	single LISN provided the r. 3) The tabletop EUT was place ground reference plane. was	ced upon a non-metalli And for floor-standing	c table 0.8m above th	
	placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The of the EUT shall be 0.4 m from the vertical ground reference plane vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary 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 unthe EUT and associated equipment was at least 0.8 m from the LISN 1 in order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed accordance.			ne ne of 2.

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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.

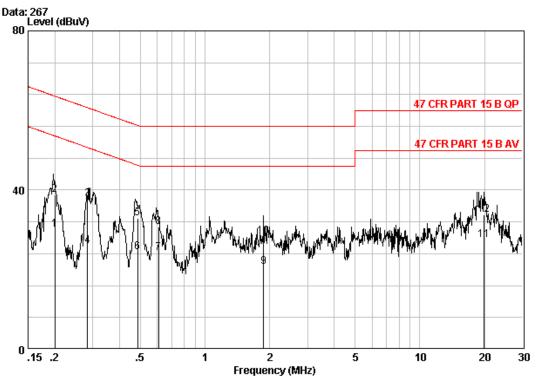
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Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

Job No. : 3970RF Mode : Transmitting

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19969	0.02	9.70	20.39	30.11	53.62	-23.51	Average
2	0.19969	0.02	9.70	29.00	38.72	63.62	-24.90	QP
3	0.28328	0.01	9.70	28.00	37.71	60.72	-23.01	QP
4	0.28328	0.01	9.70	16.21	25.93	50.72	-24.79	Average
5	0.48632	0.01	9.80	23.00	32.81	56.23	-23.42	QP
6 0	0.48632	0.01	9.80	14.61	24.42	46.23	-21.81	Average
7	0.60752	0.02	9.80	14.31	24.13	46.00	-21.87	Average
8	0.60752	0.02	9.80	21.00	30.82	56.00	-25.18	QP
9	1.878	0.02	9.80	10.81	20.63	46.00	-25.37	Average
10	1.878	0.02	9.80	18.60	28.42	56.00	-27.58	QP
11	19.950	0.02	10.10	17.30	27.42	50.00	-22.58	Average
12	19.950	0.02	10.10	23.60	33.72	60.00	-26.28	QP

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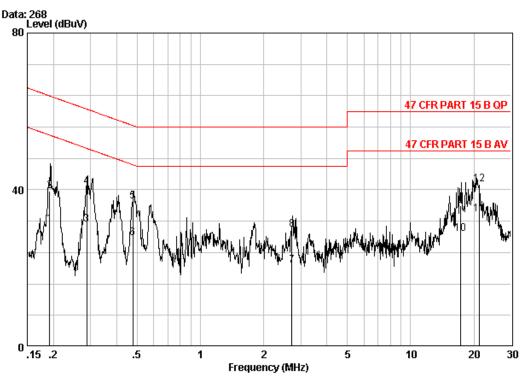




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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

Job No. : 3970RF Mode : Transmitting

		- E	Cable	LISN	Read	T 1	Limit	Over	D
		Freq	ross	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.19140	0.02	9.70	21.52	31.24	53.98	-22.73	Average
2		0.19140	0.02	9.70	30.00	39.72	63.98	-24.26	QP
3	0	0.28782	0.01	9.70	21.49	31.20	50.59	-19.39	Average
4	0	0.28782	0.01	9.70	31.00	40.71	60.59	-19.87	QP
5	0	0.47612	0.01	9.80	27.30	37.11	56.41	-19.30	QP
6	0	0.47612	0.01	9.80	17.84	27.65	46.41	-18.76	Average
7		2.721	0.02	9.83	10.86	20.72	46.00	-25.28	Average
8		2.721	0.02	9.83	20.00	29.85	56.00	-26.15	QP
9		17.291	0.02	10.05	26.00	36.07	60.00	-23.93	QP
10	0	17.291	0.02	10.05	18.76	28.82	50.00	-21.18	Average
11	0	21.147	0.02	10.10	23.64	33.76	50.00	-16.24	Average
12	0	21.147	0.02	10.10	31.20	41.32	60.00	-18.68	QP

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:	ANSI C63.10 2009 and KDB558074 D01
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
Test Instruments:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Refer to section 4.10 for details
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.
Limit:	30dBm
Test Results:	Pass



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Pre-scan under all rate at lowest channel 1								
Mode	802.11b					_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	4.91	4.86	4.50	4.03				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	16.80	16.28	16.32	16.17	16.15	16.11	16.02	15.88

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g.

Measurement Data

Weasurement Data					
	802.11b mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	4.75	30.00	Pass		
Middle	4.91	30.00	Pass		
Highest	4.89	30.00	Pass		
	802.11g mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	16.80	30.00	Pass		
Middle	16.36	30.00	Pass		
Highest	16.35	30.00	Pass		

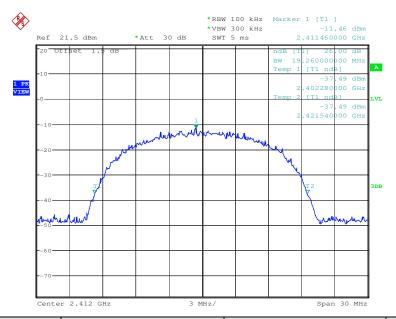


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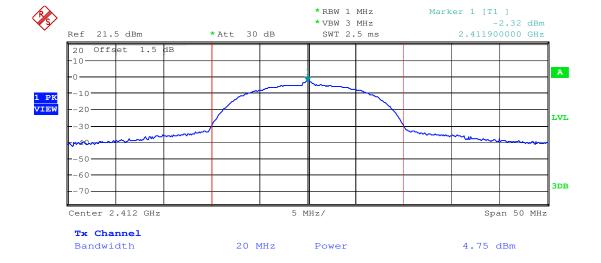
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest -26 bandwidth



Test mode: 802.11b Test channel: Lowest



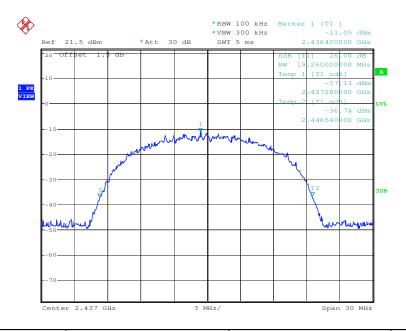
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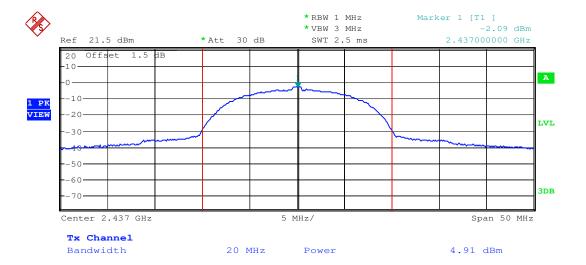
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Test mode: 802.11b Test channel: Middle -26 bandwidth



Test mode: 802.11b Test channel: Middle



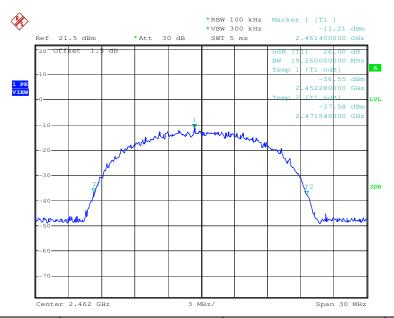
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Test mode: 802.11b Test channel: Highest -26 bandwidth



Test mode: 802.11b Test channel: Highest



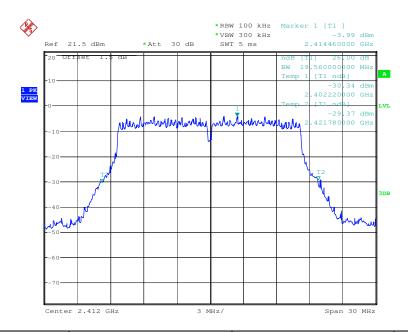
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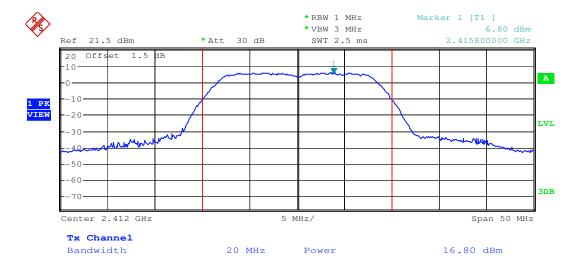
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Test mode: 802.11g Test channel: Lowest -26 bandwidth



Test mode: 802.11g Test channel: Lowest





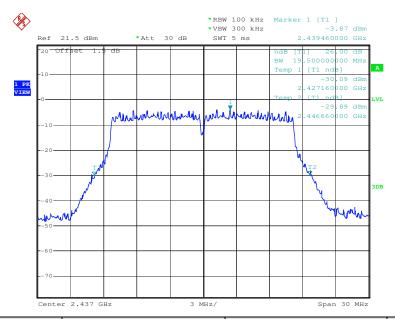
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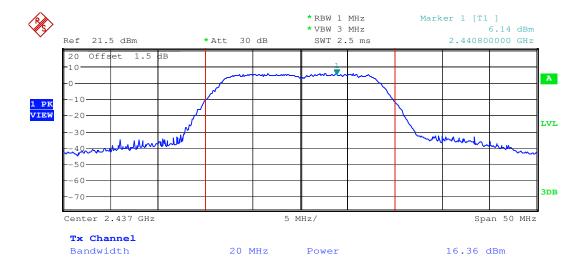
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Test mode: 802.11g Test channel: Middle -26 bandwidth



Test mode: 802.11g Test channel: Middle



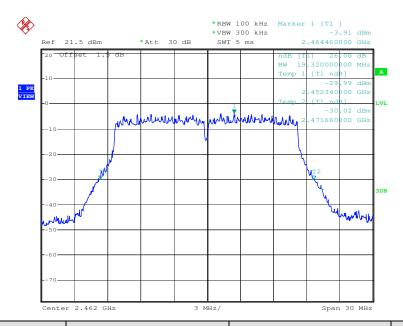
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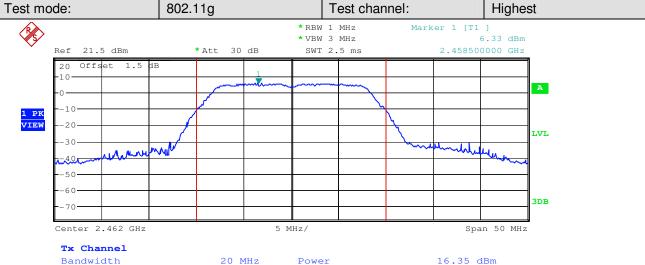


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Test mode: 802.11g Test channel: Highest -26 bandwidth





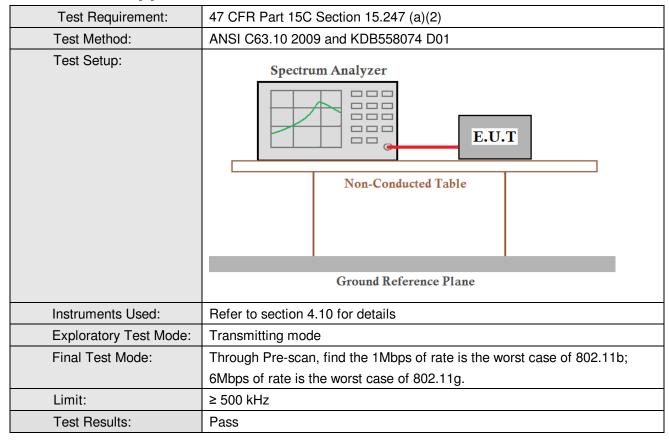
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5.4 6dB Occupy Bandwidth





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Measurement Data

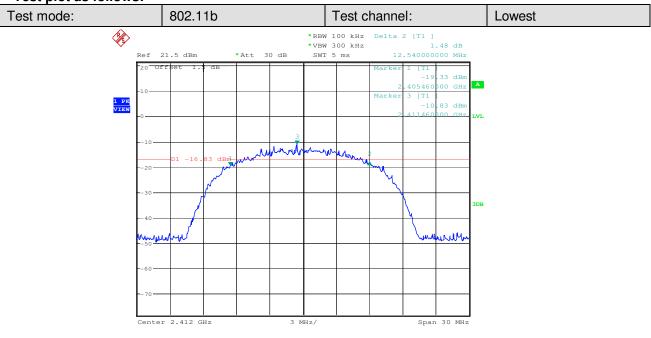
mododiomont Data						
	802.11b mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	12.54	≥500	Pass			
Middle	12.30	≥500	Pass			
Highest	12.72	≥500	Pass			
	802.11g mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	16.68	≥500	Pass			
Middle	16.68	≥500	Pass			
Highest	16.68	≥500	Pass			

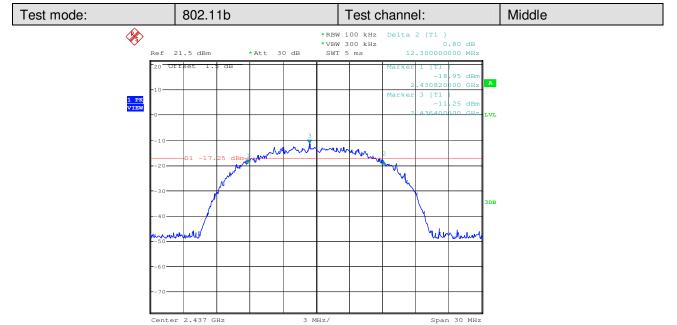


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Test plot as follows:



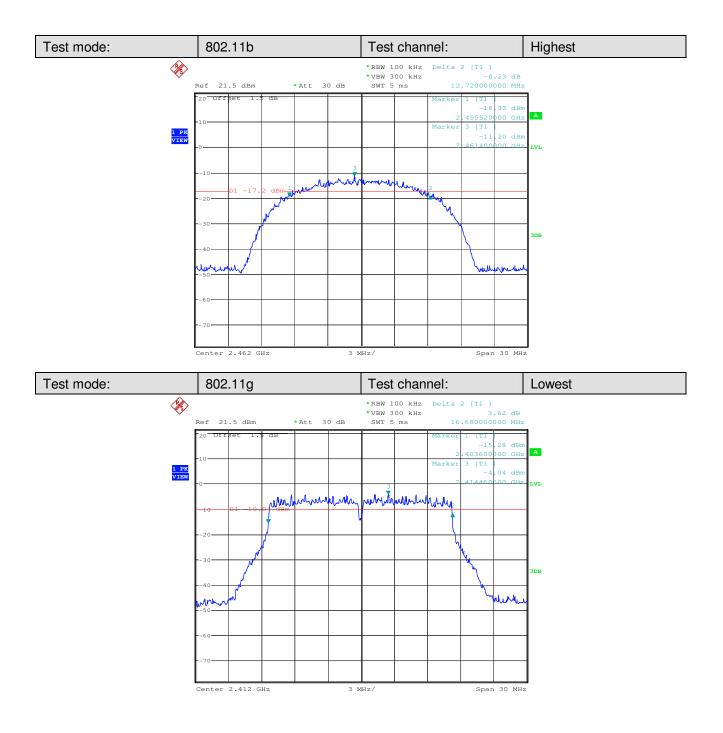


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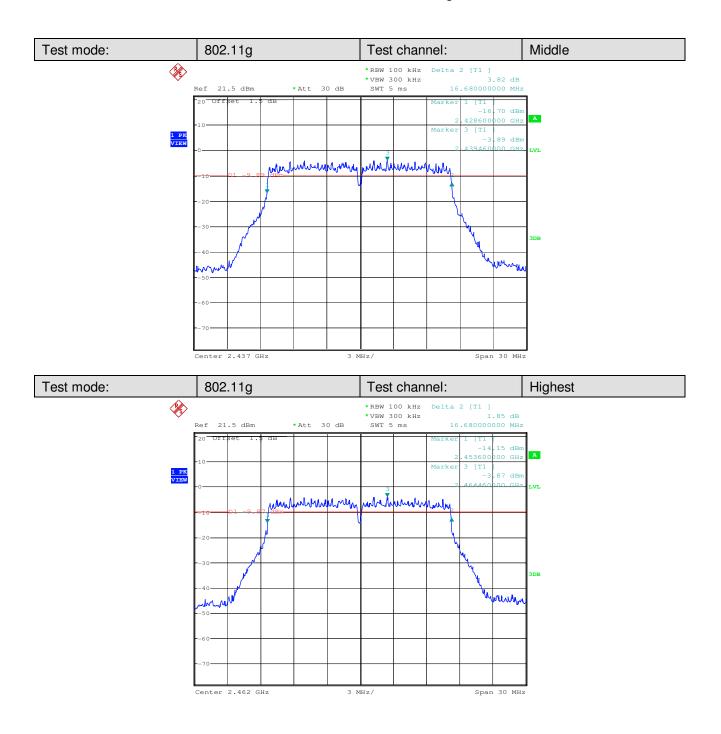


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5.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10 2009 and 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 1Mbps of rate is the worst case of 802.11b;		
	6Mbps of rate is the worst case of 802.11g.		
	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).		
Limit:	≤8.00dBm		
Test Results:	Pass		

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Measurement Data

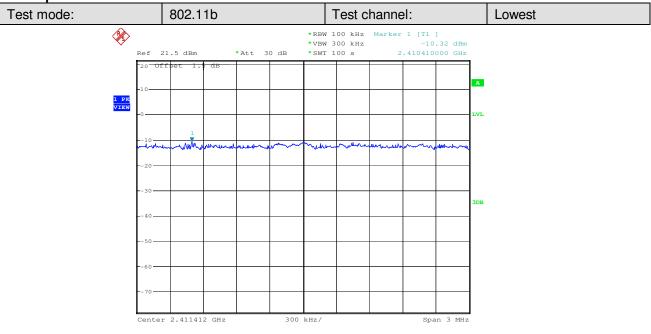
mododiomont Data						
	802.11b mode					
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result			
Lowest	-25.52	≤8.00	Pass			
Middle	-25.91	≤8.00	Pass			
Highest	-25.52	≤8.00	Pass			
	802.11g mode					
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result			
Lowest	-19.01	≤8.00	Pass			
Middle	-18.94	≤8.00	Pass			
Highest	-18.92	≤8.00	Pass			

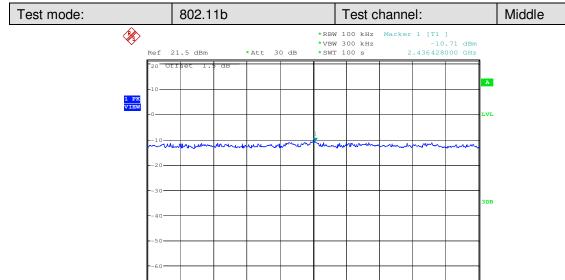


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Test plot as follows:





Center 2.43641 GHz

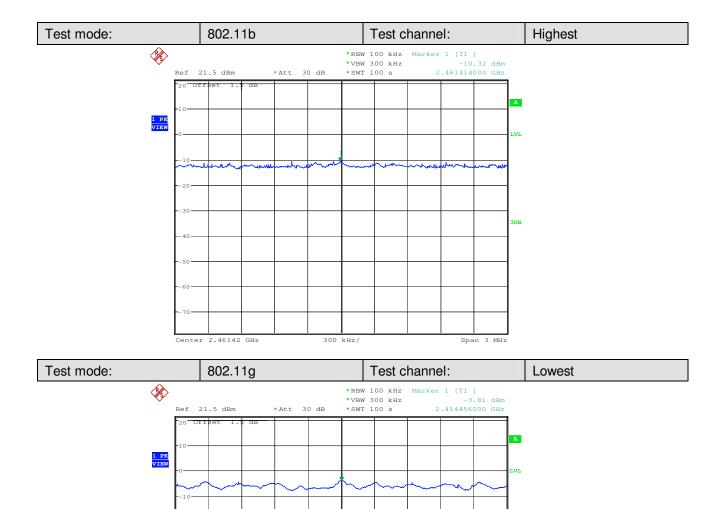


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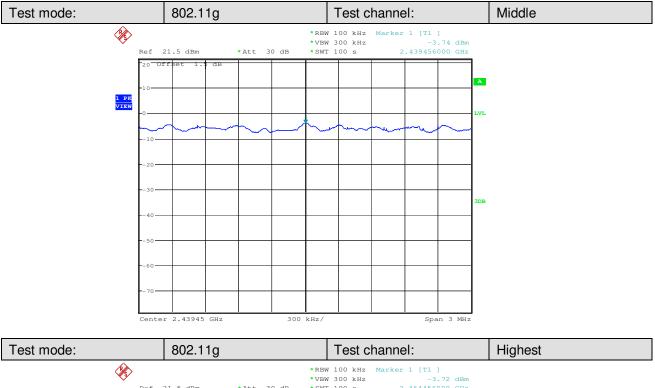
Center 2.41445 GHz

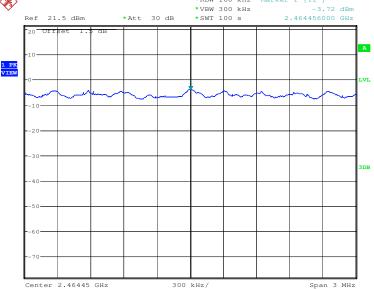
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5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10 2009 and 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:			
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.		
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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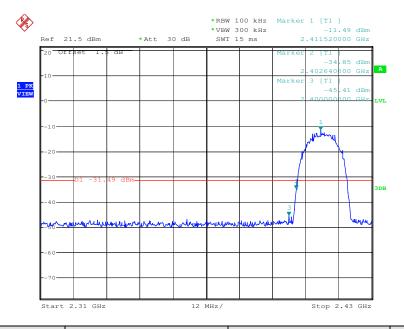


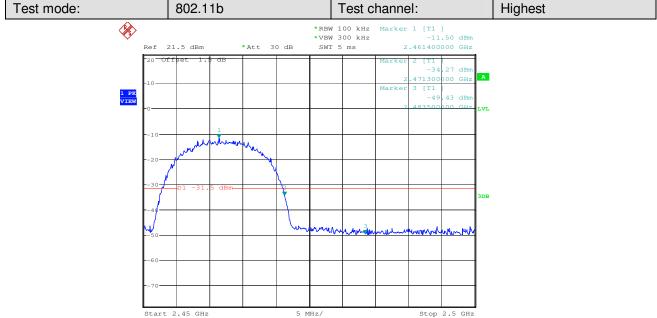
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



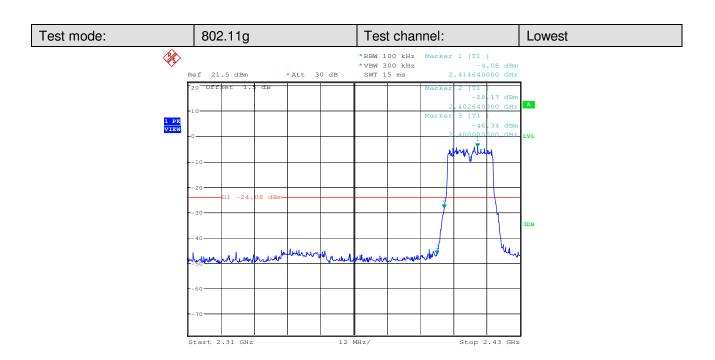


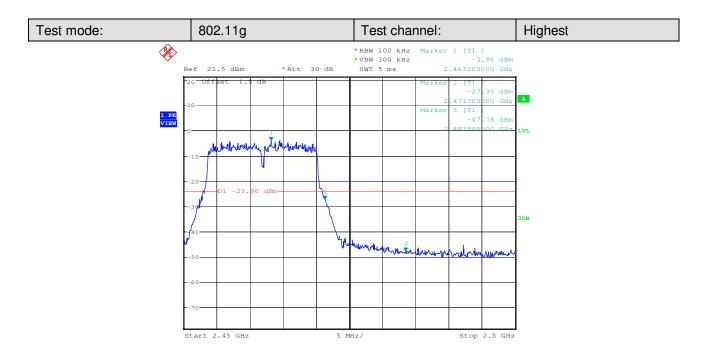
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5.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10 2009 and 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:			
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.		
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		

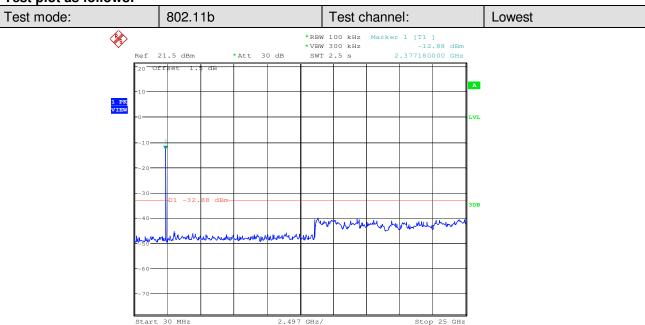
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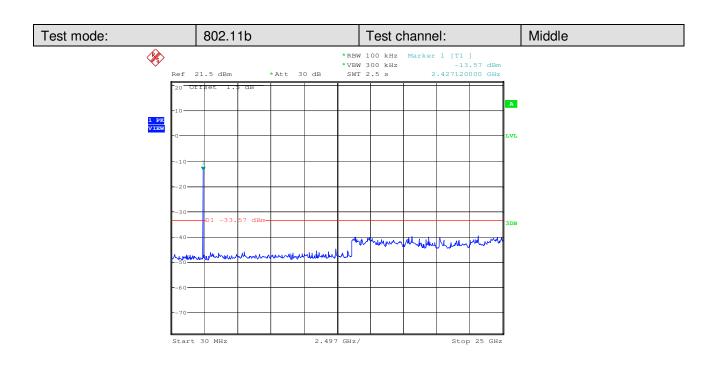


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Test plot as follows:

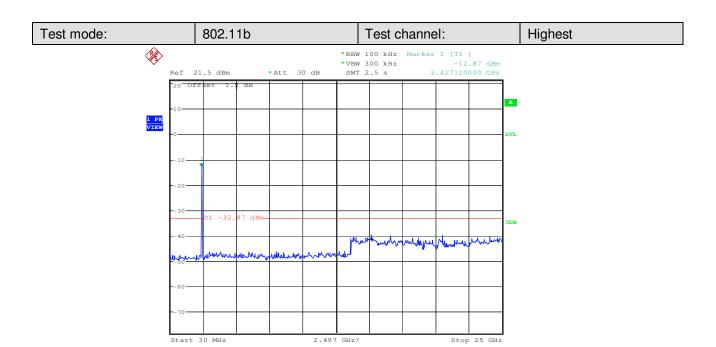


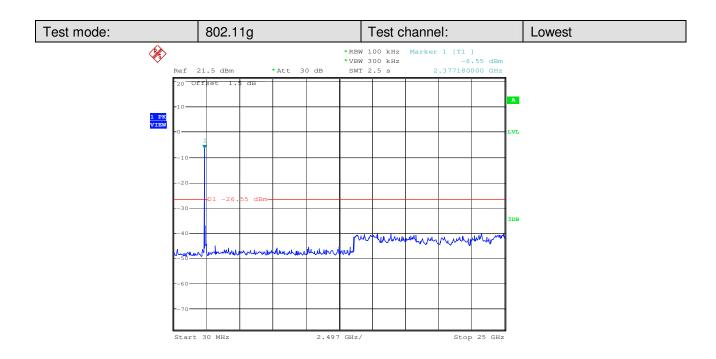




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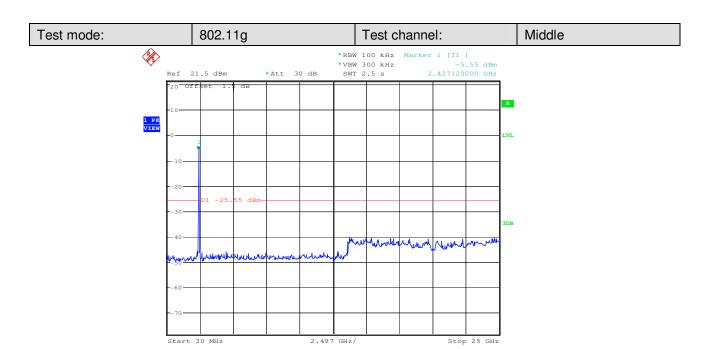


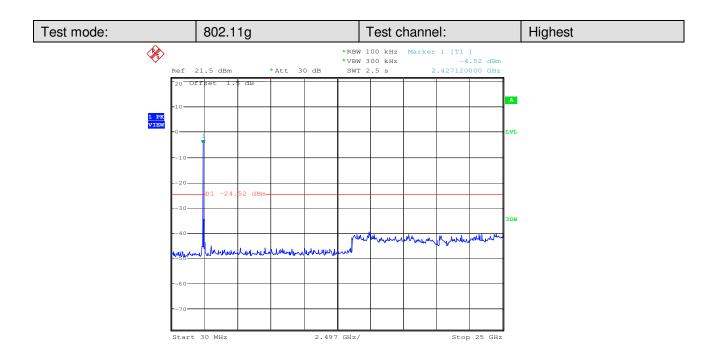




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5.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 2009 and k	(DB558074 D01								
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic 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 peak emission level radiated by the device.									

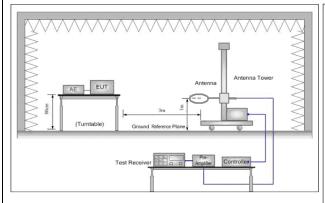




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Test Setup:



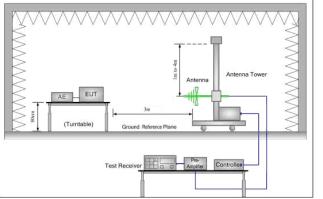


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

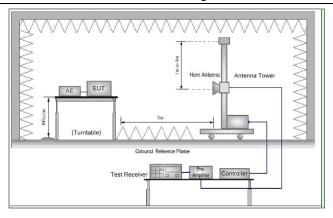


Figure 3. Above 1 GHz

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



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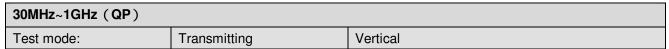
	EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
	g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
	h. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test	Transmitting mode					
Mode:	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.					
Instruments Used:	Refer to section 4.10 for details					
Test Results:	Pass					

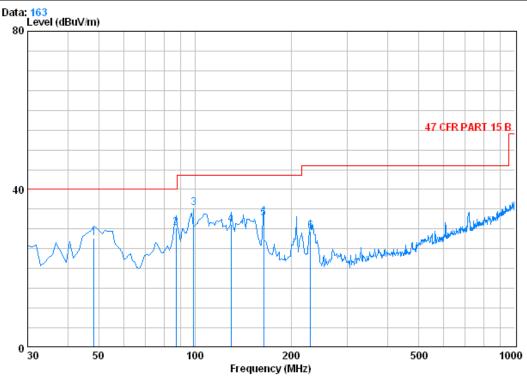


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5.8.1 Radiated emission below 1GHz





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

Job No. : 3970RF Test Mode : transmitting

CableAntenna Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit dB/m MHz dB dB dBuV dBuV/m dBuV/m 48.430 0.778.47 27.29 45.78 27.72 40.00 -12.28 1 8.45 27.22 2 87.230 1.10 48.03 30.36 40.00 -9.64 3 99.200 1.19 9.07 27.20 52.20 35.26 43.50 -8.24 129.910 7.70 27.01 49.26 31.23 43.50 -12.27 4 1.28 1.34 9.56 26.84 48.58 32.64 43.50 -10.86 1.57 11.64 26.59 42.73 29.35 46.00 -16.65 163.860 1.34 229.820

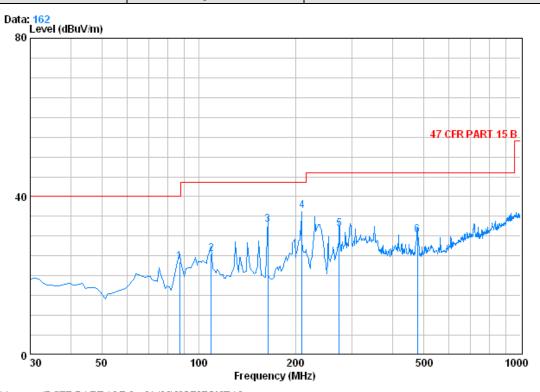
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Condition : 47 CFR PART 15 B 3m 3142C HORIZONTAL

Job No. : 3970RF Test Mode : transmitting

000101040	Freq		Antenna Factor	Preamp Factor	Read Level		Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3	87.230 109.540 163.860	1.10 1.23 1.34	8.45 8.62 9.56	27.14		23.56 25.54 32.94	43.50	-16.44 -17.96 -10.56
4 @ 5 6	209.500 273.470 478.140	1.46 1.78 2.52	10.69 12.78 17.80	26.47	51.00 43.64 37.49	31.73	46.00	-7.02 -14.27 -15.78



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5.8.2 Transmitter emission above 1GHz

Test mode:	802	.11b	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2719.353	3.16	33.00	40.09	44.67	40.74	74	-33.26	Vertical
3419.491	3.67	33.23	40.61	45.20	41.49	74	-32.51	Vertical
4834.046	4.71	34.65	41.65	45.97	43.68	74	-30.32	Vertical
6017.064	5.13	35.72	40.91	47.61	47.55	74	-26.45	Vertical
7800.936	6.22	36.00	39.36	46.59	49.45	74	-24.55	Vertical
8927.683	6.16	36.53	38.39	45.53	49.83	74	-24.17	Vertical
2671.326	3.13	32.93	40.06	45.39	41.39	74	-32.61	Horizontal
3454.486	3.70	33.22	40.63	45.83	42.12	74	-31.88	Horizontal
4181.159	4.28	34.31	41.16	46.01	43.44	74	-30.56	Horizontal
5660.469	5.00	35.15	41.22	46.64	45.57	74	-28.43	Horizontal
6921.301	5.47	35.89	40.12	46.34	47.58	74	-26.42	Horizontal
7413.726	6.02	35.97	39.69	46.75	49.05	74	-24.95	Horizontal
Test mode:	802	.11b	Test ch	annel:	Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
2657.761	3.13	32.93	40.05	44.93	40.94	74	-33.06	Vertical
3933.367	4.11	33.74	40.98	46.20	43.07	74	-30.93	Vertical
5434.559	4.93	34.83	41.42	47.05	45.39	74	-28.61	Vertical
5865.832	5.08	35.48	41.04	46.34	45.86	74	-28.14	Vertical
7761.322	6.22	36.00	39.39	47.42	50.25	74	-23.75	Vertical
8462.975	6.18	36.19	38.78	45.75	49.34	74	-24.66	Vertical
2671.326	3.13	32.93	40.06	44.51	40.51	74	-33.49	Horizontal
3653.463	3.87	33.39	40.79	45.99	42.46	74	-31.54	Horizontal
4688.616	4.61	34.90	41.54	46.36	44.33	74	-29.67	Horizontal
6527.712	5.27	36.28	40.46	46.84	47.93	74	-26.07	Horizontal
9065.084	6.14	36.66	38.27	44.85	49.38	74	-24.62	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	
2775.298	3.19	33.07	40.13	47.17	43.30	74	-30.70	Vertical	
3728.625	3.93	33.49	40.84	47.31	43.89	74	-30.11	Vertical	
4895.965	4.73	34.57	41.70	47.20	44.80	74	-29.20	Vertical	
7154.172	5.71	35.86	39.92	47.56	49.21	74	-24.79	Vertical	
8681.168	6.17	36.35	38.60	45.78	49.70	74	-24.30	Vertical	
9909.795	5.98	37.61	37.53	45.85	51.91	74	-22.09	Vertical	
2761.204	3.18	33.07	40.13	45.74	41.86	74	-32.14	Horizontal	
3738.129	3.95	33.49	40.84	46.84	43.44	74	-30.56	Horizontal	
4421.992	4.44	34.97	41.35	46.33	44.39	74	-29.61	Horizontal	
4983.987	4.77	34.43	41.77	46.55	43.98	74	-30.02	Horizontal	
6267.190	5.20	36.02	40.69	46.85	47.38	74	-26.62	Horizontal	
7860.737	6.21	36.00	39.31	45.23	48.13	74	-25.87	Horizontal	
Test mode:	802	.11g	Test ch	annel:	Lowest	Remark	:	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor	Preamp Factor	Read Level	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polarizatio n	
2818.011	(ab)	(dB/m)	(dB)	(dBuV)	,		(dB)	''	
_0.0.0.	3.22	33.14	40.17	46.47	42.66	74	-31.34	Vertical	
3516.592	, ,	` ′		,	, ,	74 74	· · ·		
	3.22	33.14	40.17	46.47	42.66		-31.34	Vertical	
3516.592	3.22 3.75	33.14 33.22	40.17 40.67	46.47 46.08	42.66 42.38	74	-31.34 -31.62	Vertical Vertical	
3516.592 4512.966	3.22 3.75 4.50	33.14 33.22 35.17	40.17 40.67 41.42	46.47 46.08 47.27	42.66 42.38 45.52	74 74	-31.34 -31.62 -28.48	Vertical Vertical Vertical	
3516.592 4512.966 6445.156	3.22 3.75 4.50 5.24	33.14 33.22 35.17 36.22	40.17 40.67 41.42 40.53	46.47 46.08 47.27 47.73	42.66 42.38 45.52 48.66	74 74 74	-31.34 -31.62 -28.48 -25.34	Vertical Vertical Vertical Vertical	
3516.592 4512.966 6445.156 7860.737	3.22 3.75 4.50 5.24 6.21	33.14 33.22 35.17 36.22 36.00	40.17 40.67 41.42 40.53 39.31	46.47 46.08 47.27 47.73 46.86	42.66 42.38 45.52 48.66 49.76	74 74 74 74	-31.34 -31.62 -28.48 -25.34 -24.24	Vertical Vertical Vertical Vertical Vertical	
3516.592 4512.966 6445.156 7860.737 9042.038	3.22 3.75 4.50 5.24 6.21 6.15	33.14 33.22 35.17 36.22 36.00 36.64	40.17 40.67 41.42 40.53 39.31 38.29	46.47 46.08 47.27 47.73 46.86 45.99	42.66 42.38 45.52 48.66 49.76 50.49	74 74 74 74 74	-31.34 -31.62 -28.48 -25.34 -24.24 -23.51	Vertical Vertical Vertical Vertical Vertical Vertical	
3516.592 4512.966 6445.156 7860.737 9042.038 2747.183	3.22 3.75 4.50 5.24 6.21 6.15 3.18	33.14 33.22 35.17 36.22 36.00 36.64 33.05	40.17 40.67 41.42 40.53 39.31 38.29 40.12	46.47 46.08 47.27 47.73 46.86 45.99 46.94	42.66 42.38 45.52 48.66 49.76 50.49 43.05	74 74 74 74 74 74	-31.34 -31.62 -28.48 -25.34 -24.24 -23.51 -30.95	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal	
3516.592 4512.966 6445.156 7860.737 9042.038 2747.183 3274.672	3.22 3.75 4.50 5.24 6.21 6.15 3.18 3.55	33.14 33.22 35.17 36.22 36.00 36.64 33.05 33.29	40.17 40.67 41.42 40.53 39.31 38.29 40.12 40.51	46.47 46.08 47.27 47.73 46.86 45.99 46.94 47.16	42.66 42.38 45.52 48.66 49.76 50.49 43.05 43.49	74 74 74 74 74 74 74	-31.34 -31.62 -28.48 -25.34 -24.24 -23.51 -30.95 -30.51	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal Horizontal	
3516.592 4512.966 6445.156 7860.737 9042.038 2747.183 3274.672 4772.910	3.22 3.75 4.50 5.24 6.21 6.15 3.18 3.55 4.67	33.14 33.22 35.17 36.22 36.00 36.64 33.05 33.29 34.76	40.17 40.67 41.42 40.53 39.31 38.29 40.12 40.51 41.61	46.47 46.08 47.27 47.73 46.86 45.99 46.94 47.16 47.69	42.66 42.38 45.52 48.66 49.76 50.49 43.05 43.49 45.51	74 74 74 74 74 74 74 74	-31.34 -31.62 -28.48 -25.34 -24.24 -23.51 -30.95 -30.51 -28.49	Vertical Vertical Vertical Vertical Vertical Vertical Horizontal Horizontal 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)	Polarization
2733.232	3.17	33.03	40.10	45.92	42.02	74	-31.98	Vertical
3543.550	3.78	33.26	40.70	46.77	43.11	74	-30.89	Vertical
4366.067	4.41	34.83	41.30	47.60	45.54	74	-28.46	Vertical
5940.967	5.11	35.62	40.97	46.95	46.71	74	-27.29	Vertical
7301.355	5.90	35.92	39.79	46.64	48.67	74	-25.33	Vertical
9514.293	6.01	37.22	37.88	45.08	50.43	74	-23.57	Vertical
2832.394	3.22	33.17	40.17	45.98	42.20	74	-31.80	Horizontal
3570.714	3.79	33.28	40.72	46.34	42.69	74	-31.31	Horizontal
4785.075	4.68	34.73	41.61	46.43	44.23	74	-29.77	Horizontal
6203.700	5.18	35.94	40.74	47.07	47.45	74	-26.55	Horizontal
7413.726	6.02	35.97	39.69	47.00	49.30	74	-24.70	Horizontal
8355.943	6.19	36.14	38.88	46.51	49.96	74	-24.04	Horizontal
Test mode:	802	.11g	Test ch	annel:	Highest	Remark	Remark:	
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
2775.298	3.19	33.07	40.13	45.88	42.01	74	-31.99	Vertical
4024.520	4.18	33.89	41.05	46.26	43.28	74	-30.72	Vertical
4946.072	4.75	34.48	41.74	47.74	45.23	74	-28.77	Vertical
6903.705	5.45	35.90	40.13	47.61	48.83	74	-25.17	Vertical
7761.322	6.22	36.00	39.39	46.59	49.42	74	-24.58	Vertical
9611.663	5.99	37.32	37.80	44.78	50.29	74	-23.71	Vertical
2875.986	3.25	33.21	40.21	45.15	41.40	74	-32.60	Horizontal
3893.520	4.07	33.68	40.95	46.34	43.14	74	-30.86	Horizontal
5631.725	5.00	35.09	41.24	47.48	46.33	74	-27.67	Horizontal
6992.135	5.52	35.82	40.07	47.00	48.27	74	-25.73	Horizontal
8837.241	6.16	36.47	38.47	45.15	49.31	74	-24.69	Horizontal
9538.543	6.00	37.23	37.86	44.67	50.04	74	-23.96	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) 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, the peak field strength of any emission shall not exceed the maximum permitted average limits, So only the peak measurements were shown in the report.

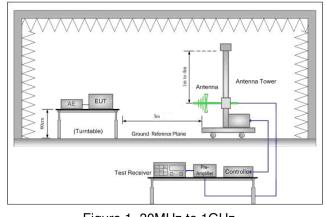


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5.9 Band Edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section 1	7 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2009 and KDI	B558074 D01							
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	er)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
	Above IGHZ	74.0	Peak Value						
Test Setup:									



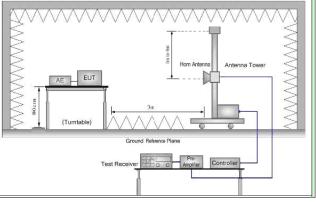


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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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. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	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.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

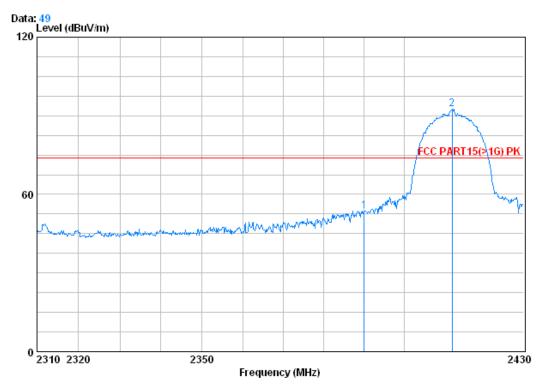


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Test plot as follows:

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



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

Job No. : 4487RF

Mode : b 2412 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	2390.000	2.98	32.51	39.85	58.11	53.76	74.00	-20.24	
20	2412.000	2.99	32.54	39.86	96.82	92.50	74.00	18.50	

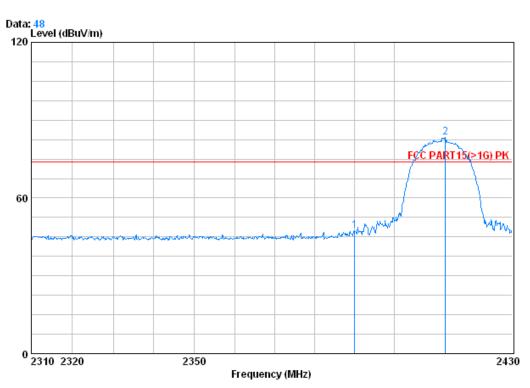




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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



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

Job No. : 4487RF

Mode : b 2412 Bandedge

			CableAntenna 1		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	51.68	47.33	74.00	-26.67	
2	0	2412.960	2.99	32.54	39.86	87.58	83.26	74.00	9.26	

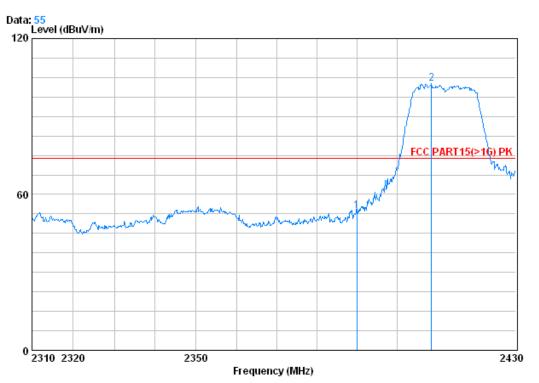
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Vertical



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

Job No. : 4487RF

Mode : g 2412 Bandedge

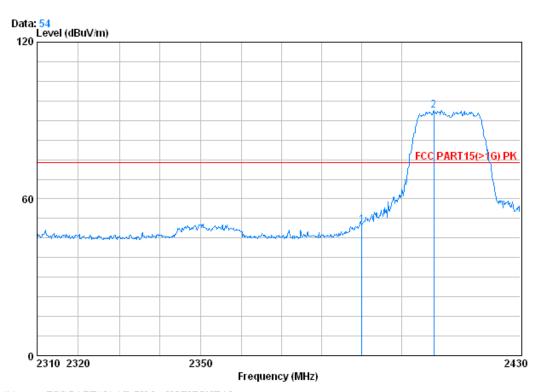
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 0	2389.920 2408.640			39.85 39.86				



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



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

Job No. : 4487RF

Mode : g 2412 Bandedge

			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	54.45	50.10	74.00	-23.90
2	0	2408.160	2.99	32.54	39.86	98.26	93.94	74.00	19.94

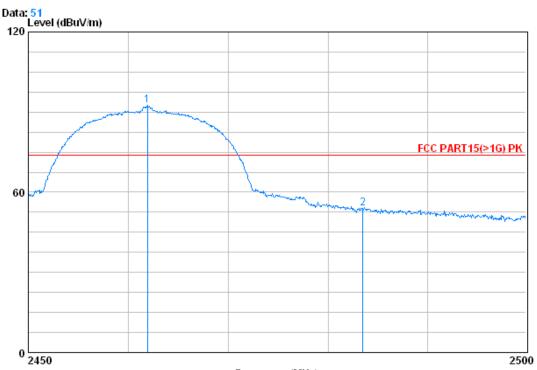
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Vertical



Frequency (MHz)

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

Job No. : 4487RF

Mode : b 2462 Bandedge

	Freq	CableAntenna Loss Factor		-				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0 2	2461.900 2483.500			39.91 39.92				

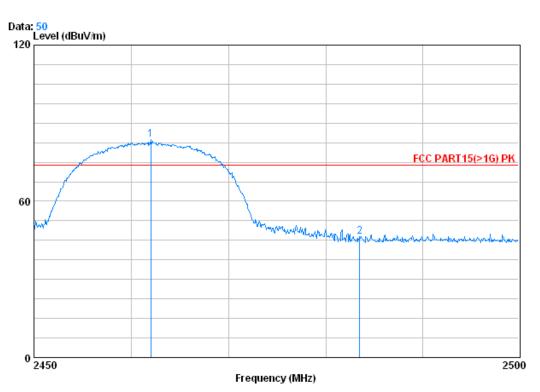
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Horizontal



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

Job No. : 4487RF

Mode: b 2462 Bandedge

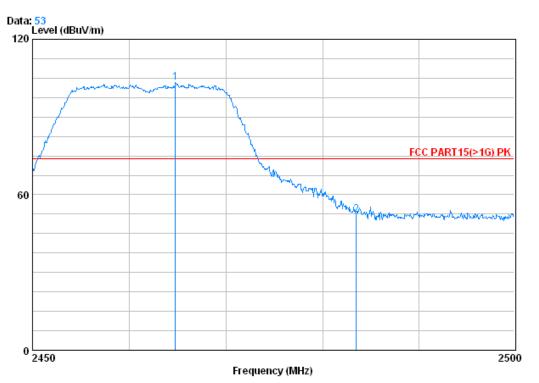
		Cablei	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 0	2461.950	3.02	32.64	39.91	87.93	83.68	74.00	9.68
2	2483.500	3.03	32.67	39.92	50.54	46.32	74.00	-27.68



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



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

Job No. : 4487RF Mode : g 2462 Bandedge

1 0

CableAntenna Preamp Read Over Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2464.750 3.02 32.64 39.91 107.50 103.25 74.00 29.25 2483.500 3.03 32.67 39.92 56.45 52.23 74.00 -21.77

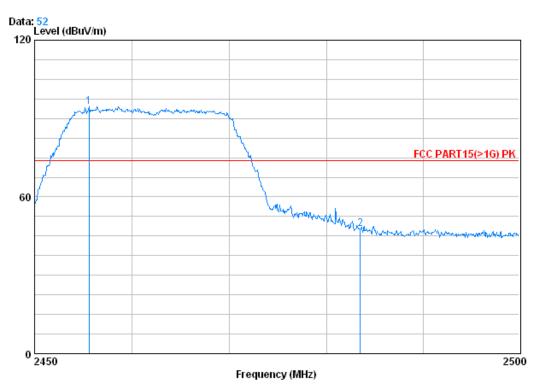
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal



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

Job No. : 4487RF

Mode : g 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 0	2455.550	3.01	32.64	39.91	98.90	94.65	74.00	20.65
2	2483.500	3.03	32.67	39.92	51.97	47.75	74.00	-26.25

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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