

Report No.: SZEM130300109501

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

District, Shenzhen, Guangdong, China 518057

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FCC REPORT

Application No: SZEM1303001095RF

Applicant: SHENZHEN GIEC ELECTRONICS CO., LTD. **Manufacturer:** SHENZHEN GIEC ELECTRONICS CO., LTD.

Factory: SHENZHEN GIEC ELECTRIC MUNUFACTORY CO., LTD.

Product Name: Tablet PC Model No.(EUT): V700NA

Add Model No.: V700N, V700B, V7028D, V7025D, V7011, GK-MID7011,

GK-MID7028

FCC ID: ZVRMIDV7DKUSA0001

Standards: 47 CFR Part 15, Subpart C (2012)

Date of Receipt: 2013-03-14

Date of Test: 2013-03-21 to 2013-04-18

Date of Issue: 2013-05-27

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

Remark:

Model No.: V700NA, V700N, V700B, V7028D, V7025D, V7011, GK-MID7011, GK-MID7028

Only the model V700NA was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with only difference being model number and the color.



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4 General Information

4.1 Client Information

Applicant:	SHENZHEN GIEC ELECTRONICS CO., LTD.				
Address of Applicant:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen,				
	Guangdong, China				
Manufacturer:	SHENZHEN GIEC ELECTRONICS CO., LTD.				
Address of Manufacturer:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen				
	Guangdong, China				
Factory:	SHENZHEN GIEC ELECTRIC MUNUFACTORY CO., LTD.				
Address of Factory:	No. 1 Building, Factory, No. 7 District, Dayang Development Areas,				
	FuYong Street, Baoan, Shenzhen, Guangdong, China				

4.2 General Description of EUT

Product Name:	Tablet PC				
Model No.:	V700NA, V700N, V700B, V7028D, V7025D, V7011, GK-MID7011,				
	GK-MID7028				
Operation Frequency:	IEEE 802.11b/	g/n(HT20): 2412MHz to 2462MHz			
	IEEE 802.11n(HT40): 2422MHz to 2452MHz			
Channel Numbers:		g, IEEE 802.11n HT20: 11 Channels			
		HT40: 7 Channels			
Channel Separation:	5MHz				
Type of Modulation:	IEEE for 802.1	1b: 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				
Antenna Type:	Integral				
Antenna Gain:	2.0dBi				
Power Supply:	AC Adapter:	MODEL:HWT-15W-050150AU			
		INPUT:AC 100-240V 50/60Hz 0.35A Max			
	OUTPUT:DC 5V 1.5A				
	Battery: 3.7V 7.77Wh rechargeable battery				
AC cable:	90cm				
USB cable:	25cm				
Test Voltage:	AC 120V 60Hz				

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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency	Chan	nel	Frequency
1	24	112MHz	4	2427MHz	7	244	42MHz	10)	2457MHz
2	24	117MHz	5	2432MHz	8	244	47MHz	11		2462MHz
3	24	122MHz	6	2437MHz	9	245	2452MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40)					
Channel Frequency			ency	Channel	Frequen	су	Chan	nel	F	Frequency
1		2422	ИНz	4	2437MF	łz	. 7			2452MHz
2		2427	MHz	5	2442MHz					
3		2432	ИНz	6	2447MF	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:	23.0 °C					
Humidity:	48% RH					
Atmospheric Pressure:	1020 mbar					
Test mode:						
Charge+ Transmitting mode:	Keep the EUT charging and transmitting with modulation.					
Transmitting mode:	Keep the EUT transmitting with modulation.					

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Earphone	N/A	N/A

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)

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

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

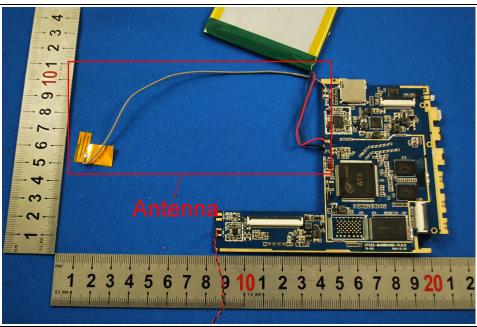
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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



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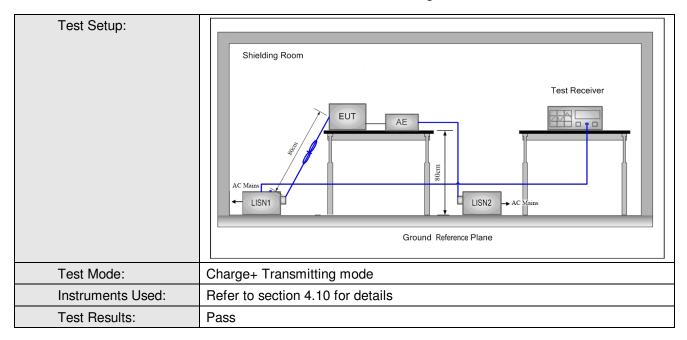
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207	
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Francisco (MIII-)	Limit (c	IBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithn	n of the frequency.	
Test Procedure:	The mains terminal disturble room.	bance voltage test was	s conducted in a shielded
	 The EUT was connected to Impedance Stabilization N impedance. The power call connected to a second LIS plane in the same way as multiple socket outlet strip single LISN provided the result of the test was performed. A placed on the horizontal ground reference plane. A placed on the horizontal ground reference pareference plane. The LISN unit under test and bonded mounted on top of the ground test and bonded to between the closest points the EUT and associated experience plane. The LISN control of the maximum equipment and all of the iman ANSI C63.10: 2009 on control or control of the control of the iman and all of the iman an	etwork) which provides oles of all other units of SN 2, which was bonder the LISN 1 for the unit was used to connect nating of the LISN was reced upon a non-metalling for floor-standing around reference plane, the a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the unit reference plane. To five the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the purpose of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the quipment was at least 0 am emission, the relation of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emission and the purpose of the LISN 1 and the quipment was at least 0 am emissi	s a 50Ω/50μH + 5Ω linear of the EUT were do not the ground reference being measured. A multiple power cables to a not exceeded. In the case of the ca



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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.

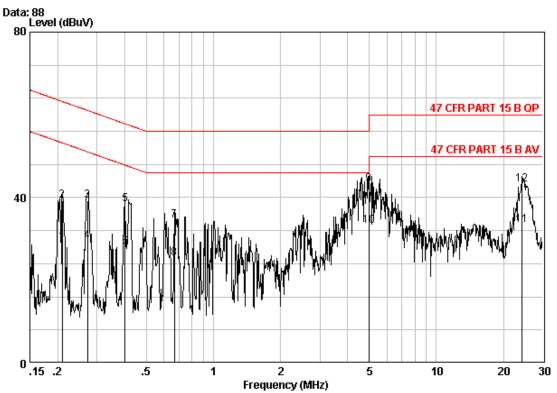
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Live Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE LINE

Job No. : 1095RF

Mode : Charge + TX mode

			Cable	LISN	Read		Limit	Over	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.20944	0.02	9.70	19.60	29.32	53.23	-23.91	Average
2		0.20944	0.02	9.70	29.44	39.16	63.23	-24.07	QP
3		0.27152	0.01	9.70	29.43	39.14	61.07	-21.93	QP
4		0.27152	0.01	9.70	19.80	29.51	51.07	-21.56	Average
5		0.40187	0.01	9.80	28.63	38.44	57.81	-19.37	QP
6		0.40187	0.01	9.80	18.40	28.21	47.81	-19.60	Average
7		0.66832	0.02	9.80	24.68	34.49	56.00	-21.51	QP
8		0.66832	0.02	9.80	15.40	25.22	46.00	-20.78	Average
9	0	4.978	0.01	9.90	33.30	43.21	56.00	-12.79	QP
10		4.978	0.01	9.90	23.30	33.21	46.00	-12.79	Average
11		24.271	0.02	10.10	23.30	33.42	50.00	-16.58	Average
12		24.271	0.02	10.10	33.07	43.19	60.00	-16.81	QP

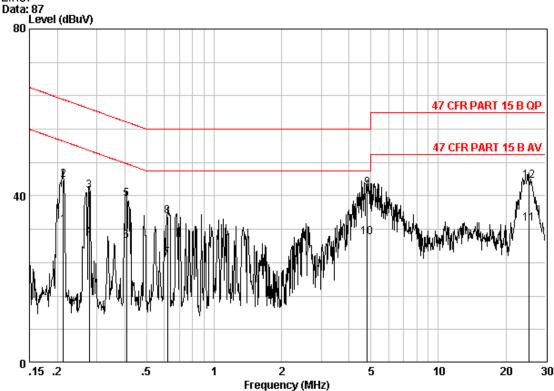
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART 15 B QP CE NEUTRAL

Job No. : 1095RF

Mode : Charge + TX mode

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.21279	0.02	9.70	23.30	33.02	53.10	-20.08	Average
2	0.21279	0.02	9.70	34.07	43.78	63.10	-19.31	QP
3	0.27734	0.01	9.70	31.58	41.29	60.90	-19.60	QP
4	0.27734	0.01	9.70	20.30	30.01	50.90	-20.88	Average
5	0.40615	0.01	9.80	29.40	39.21	57.73	-18.51	QP
6	0.40615	0.01	9.80	19.50	29.31	47.73	-18.42	Average
7	0.62054	0.02	9.80	15.20	25.02	46.00	-20.98	Average
8	0.62054	0.02	9.80	25.36	35.18	56.00	-20.82	QP
9	4.822	0.01	9.90	31.93	41.84	56.00	-14.16	QP
10	4.822	0.01	9.90	20.20	30.11	46.00	-15.89	Average
11	25.321	0.03	10.10	23.30	33.43	50.00	-16.57	Average
12	25.321	0.03	10.10	33.47	43.60	60.00	-16.40	OP

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, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).
Limit:	30dBm
Test Results:	Pass

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Pre-scan	under all rat	e at lowest o	channel 1					
Mode		802	.11b					
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	20.64	19.31	20.45	20.58				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	18.99	18.13	18.35	17.85	18.04	18.39	18.65	18.82
Mode				802.11	n(HT20)			
Data Rate	7.2Mbps	14.4Mbps	21.7Mbps	28.9Mbps	43.3Mbps	57.8Mbps	65Mbps	72.2Mbps
Power (dBm)	17.73	17.35	17.48	17.02	16.90	17.25	17.41	17.57
Mode				802.11	n(HT40)			
Data Rate	15Mbps	30Mbps	45Mbps	60Mbps	90Mbps	120Mbps	135Mbps	150Mbps
Power (dBm)	16.13	15.86	15.90	15.62	15.81	15.95	15.93	15.98

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

weasurement bata			
	802.11b mo	de	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.64	30.00	Pass
Middle	20.20	30.00	Pass
Highest	19.45	30.00	Pass
	802.11g mo	de	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	18.99	30.00	Pass
Middle	18.62	30.00	Pass
Highest	17.91	30.00	Pass
	802.11n(HT20)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	17.73	30.00	Pass
Middle	16.85	30.00	Pass
Highest	15.97	30.00	Pass
	802.11n(HT40)	mode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	16.13	30.00	Pass
Middle	15.66	30.00	Pass
Highest	15.23	30.00	Pass

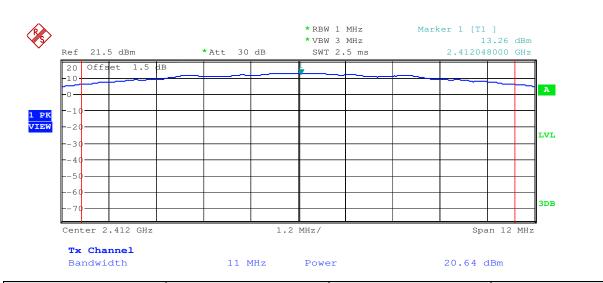


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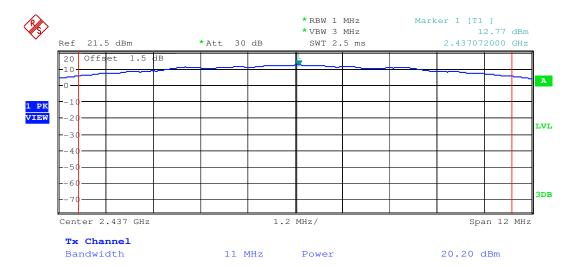
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle



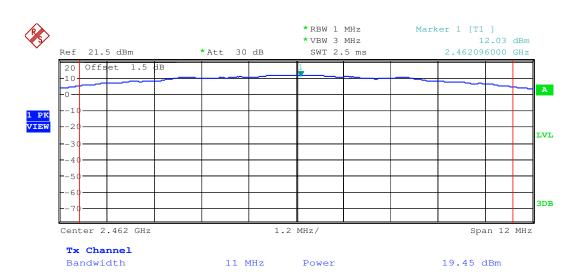
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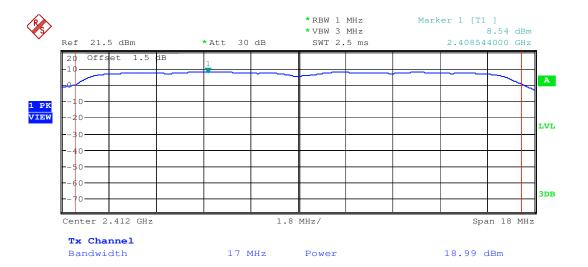
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



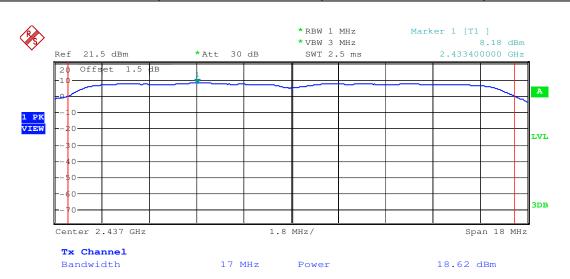
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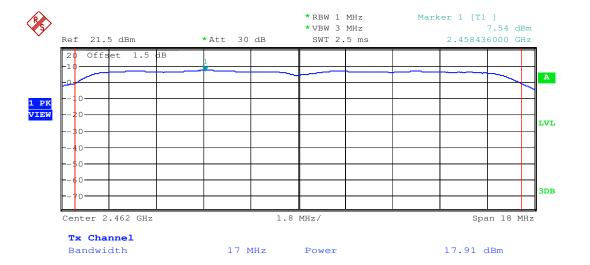
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



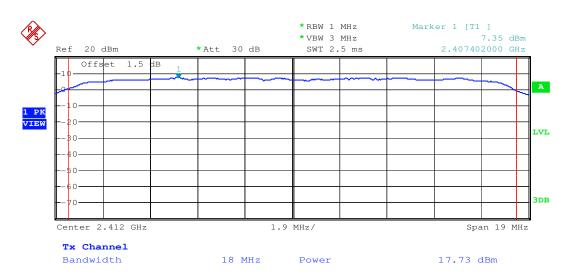
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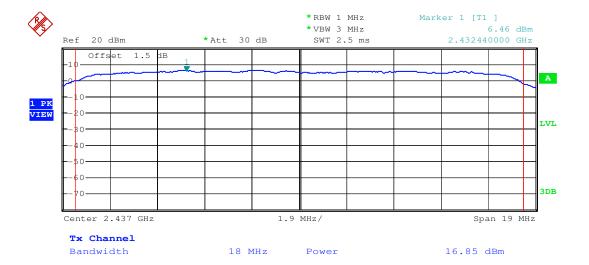
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Test mode: 802.11n(HT20) Test channel: Lowest



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



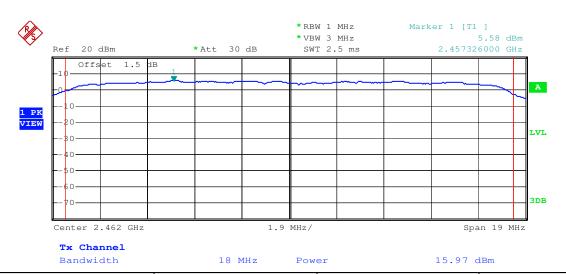
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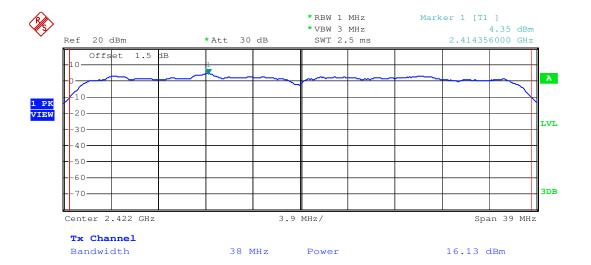
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Test mode: 802.11n(HT20) Test channel: Highest



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



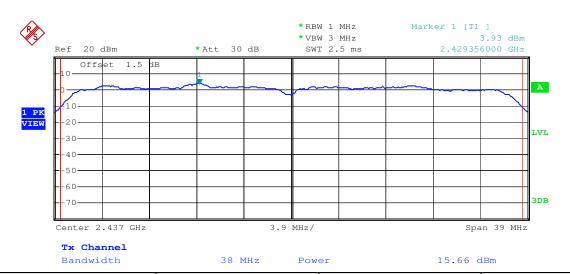
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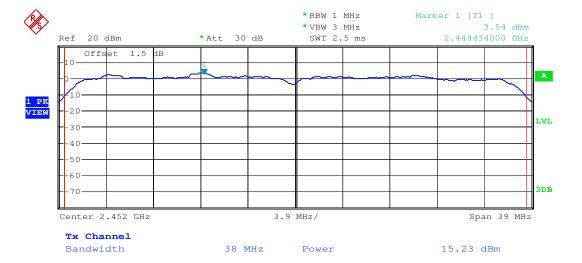
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Test mode: 802.11n(HT40) Test channel: Middle



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



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5.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	KDB558074 D01
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Instruments Used:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≥ 500 kHz
Test Results:	Pass



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Measurement Data

weasurement Data			
	802.11b mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.20	≥500	Pass
Middle	10.20	≥500	Pass
Highest	10.20	≥500	Pass
	802.11g mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.50	≥500	Pass
Middle	16.62	≥500	Pass
Highest	16.62	≥500	Pass
	802.11n(HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.76	≥500	Pass
Middle	17.76	≥500	Pass
Highest	17.76	≥500	Pass
	802.11n(HT40)mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.20	≥500	Pass
Middle	36.60	≥500	Pass
Highest	36.50	≥500	Pass

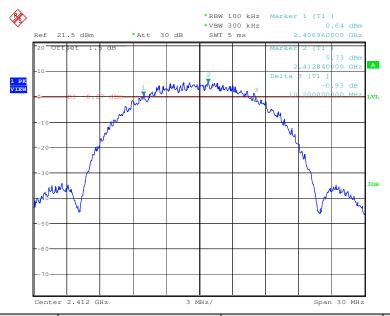


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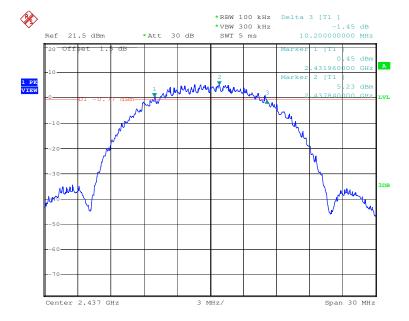
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Test plot as follows:





Test mode: 802.11b Test channel: Middle



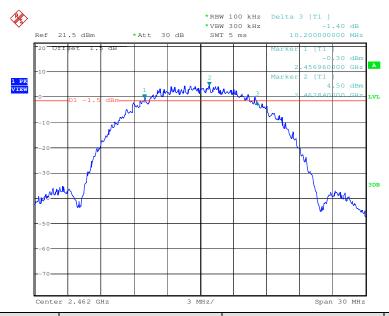
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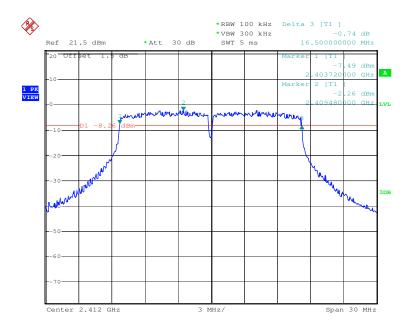
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



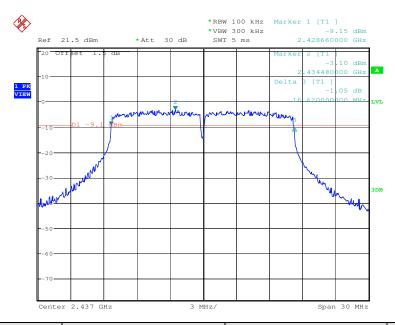
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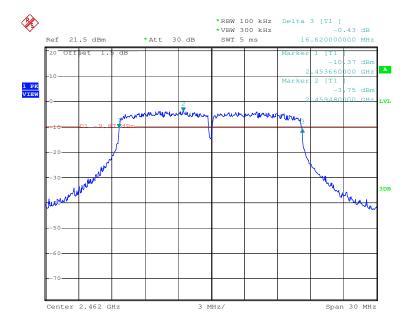
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Test mode: 802.11g Test channel: Middle







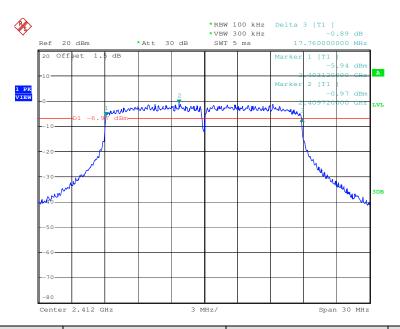
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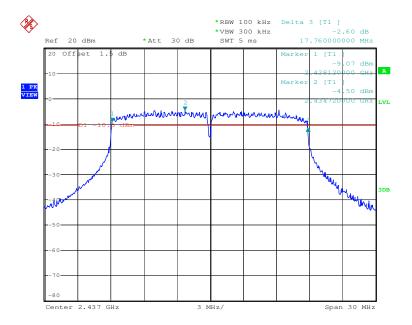
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Test mode: 802.11n(HT20) Test channel: Lowest



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



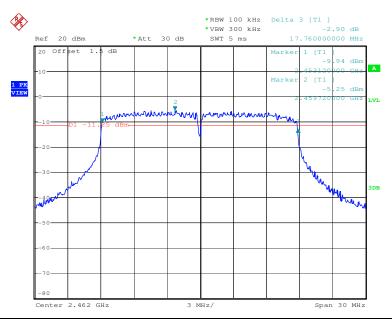
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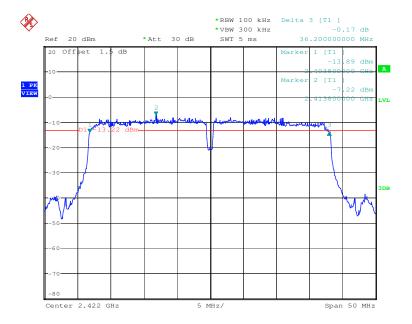
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Test mode: 802.11n(HT20) Test channel: Highest







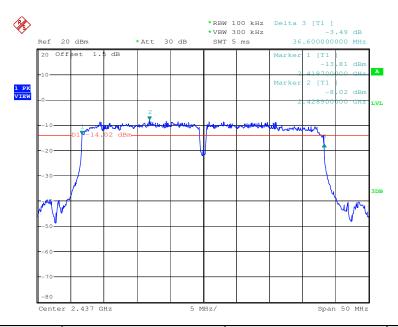
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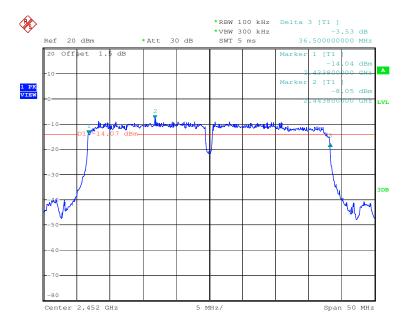
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Test mode: 802.11n(HT40) Test channel: Middle







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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, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).
Limit:	≤8.00dBm
Test Results:	Pass

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Measurement Data

Mcasarcment Bata			
	802.11b mode		
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-7.32	≤8.00	Pass
Middle	-7.79	≤8.00	Pass
Highest	-8.48	≤8.00	Pass
	802.11g mode		
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-17.13	≤8.00	Pass
Middle	-17.29	≤8.00	Pass
Highest	-18.13	≤8.00	Pass
	802.11n(HT20) mode		
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-17.17	≤8.00	Pass
Middle	-17.76	≤8.00	Pass
Highest	-18.26	≤8.00	Pass
	802.11n(HT40) mode		
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-20.25	≤8.00	Pass
Middle	-20.51	≤8.00	Pass
Highest	-21.09	≤8.00	Pass

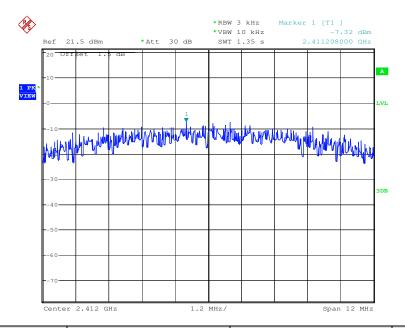


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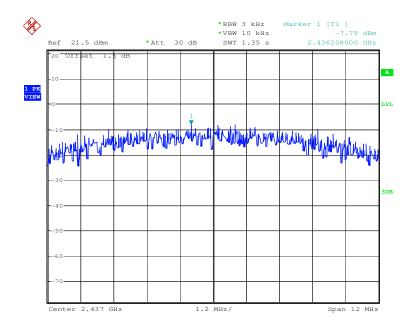
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle





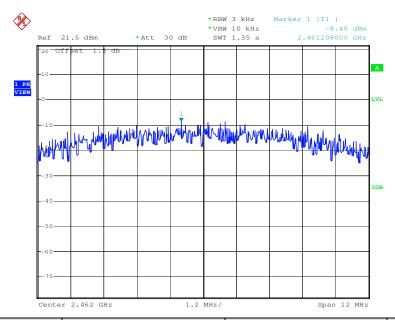
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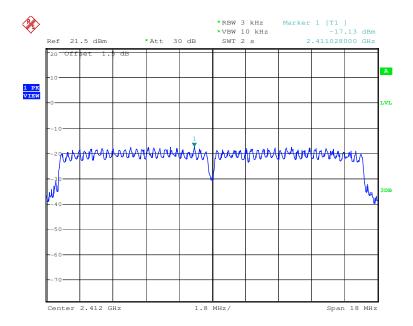
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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest



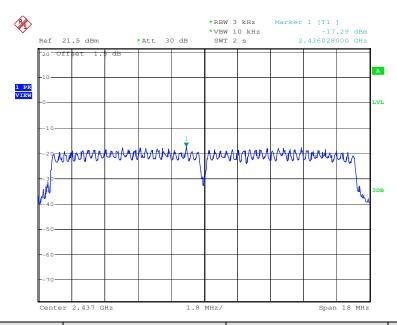
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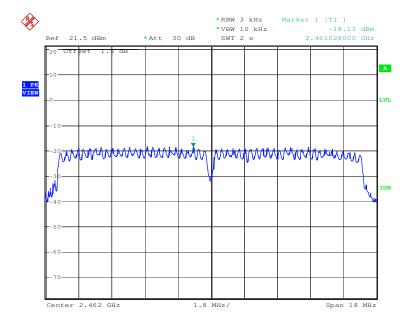
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



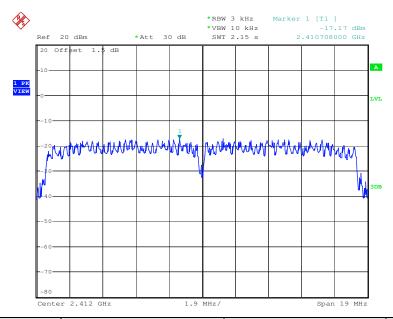
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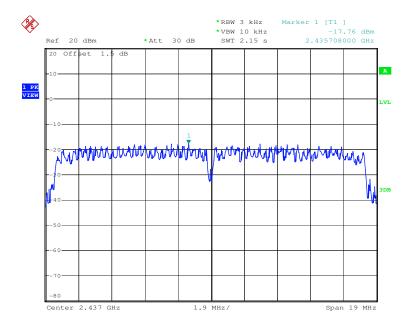
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Test mode: 802.11n (HT20) Test channel: Lowest



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



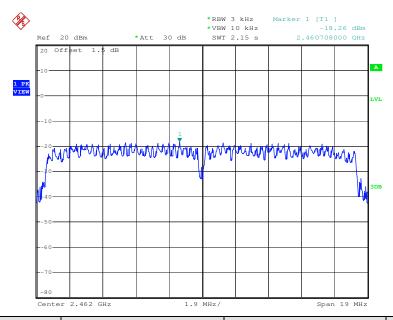
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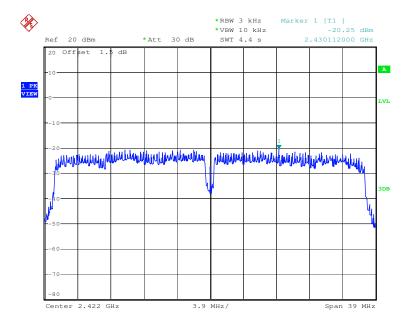
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Test mode: 802.11n (HT20) Test channel: Highest



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



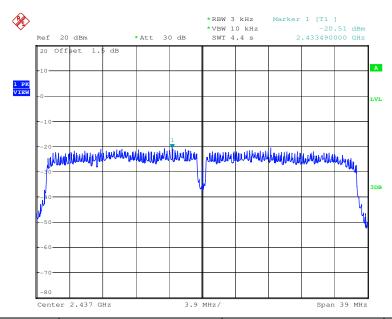
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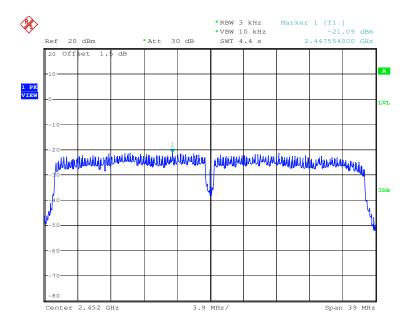
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Test mode: 802.11n (HT40) Test channel: Middle









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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, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps 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

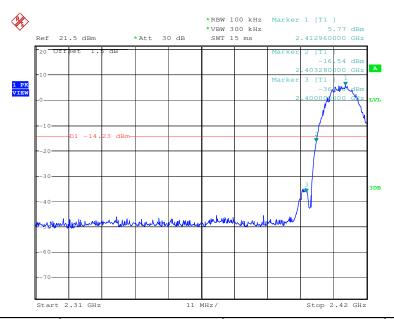


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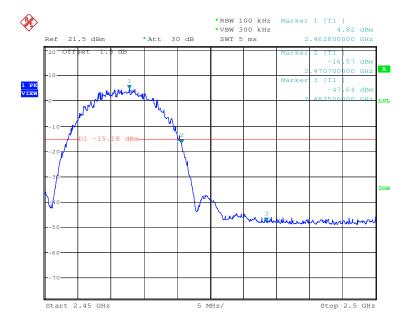
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Highest

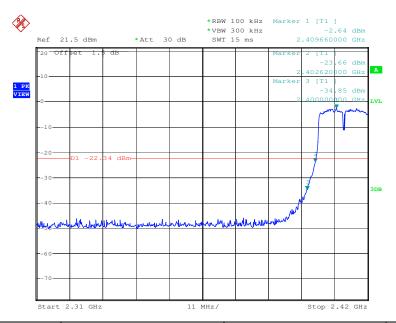




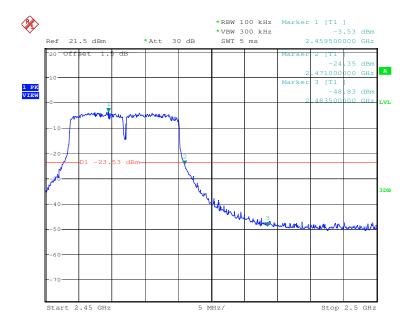
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Test mode: 802.11g Test channel: Lowest





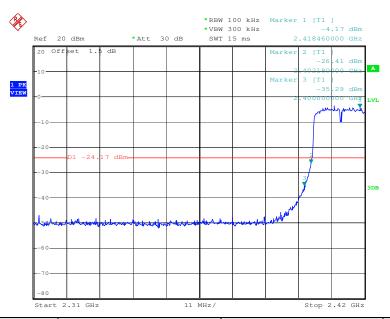




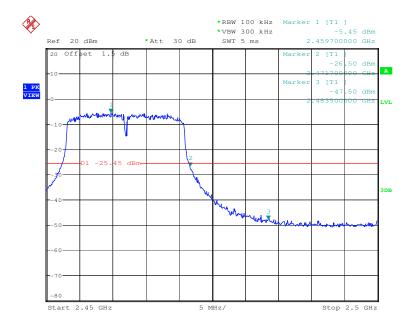
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Test mode: 802.11n(HT20) Test channel: Lowest





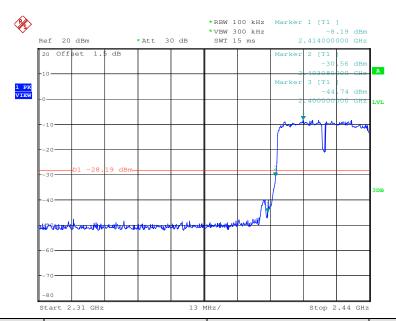




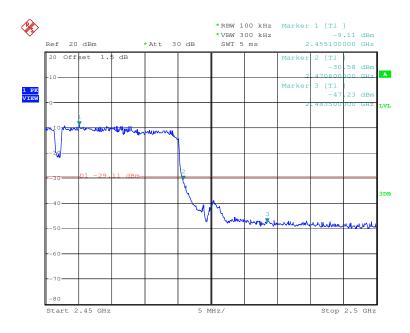
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Test mode: 802.11n(HT40) Test channel: Lowest



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







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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, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps 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					

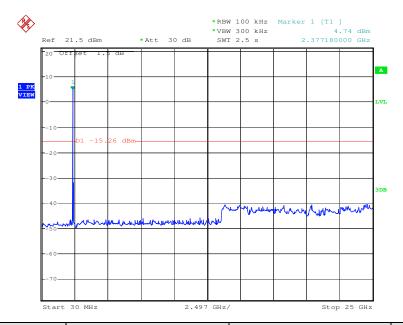


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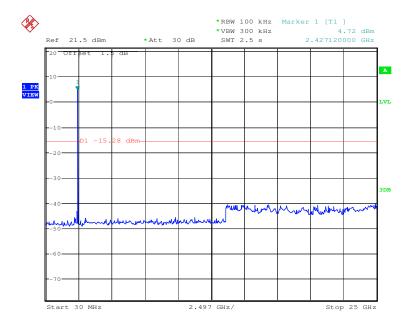
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

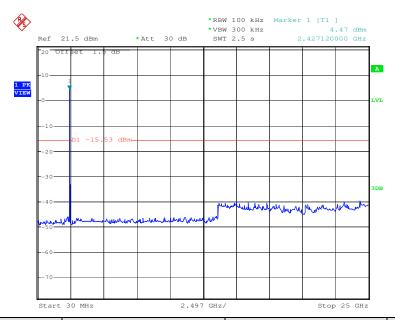




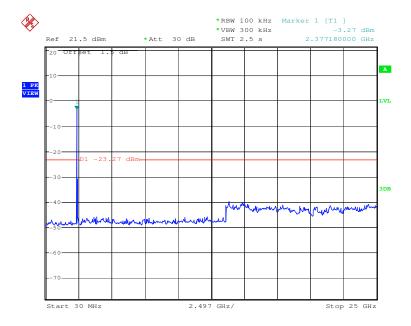
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Test mode: 802.11b Test channel: Highest





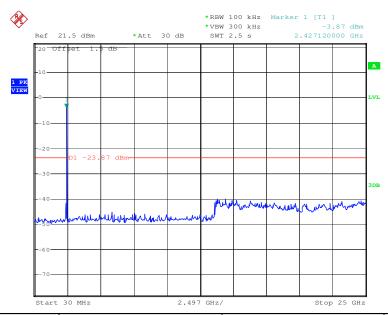




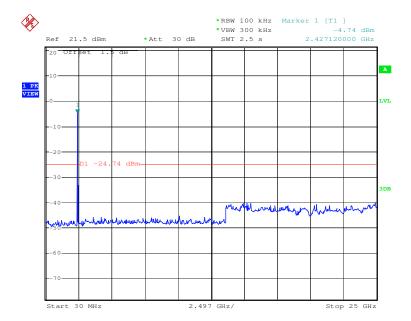
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Test mode: 802.11g Test channel: Middle



Test mode: 802.11g Test channel: Highest



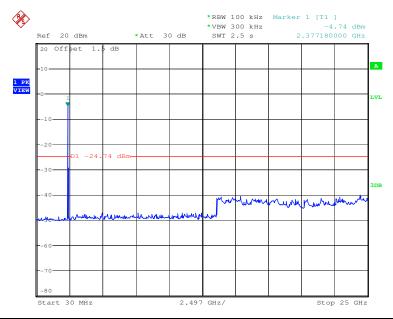
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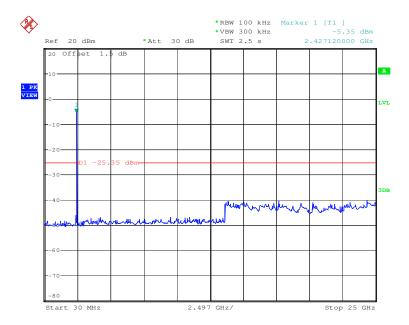
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Test mode: 802.11n(HT20) Test channel: Lowest



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

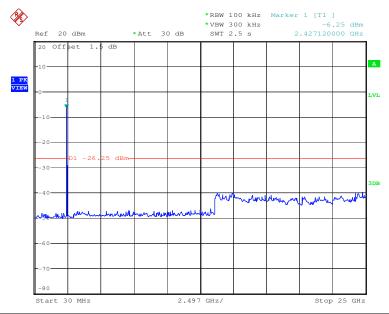




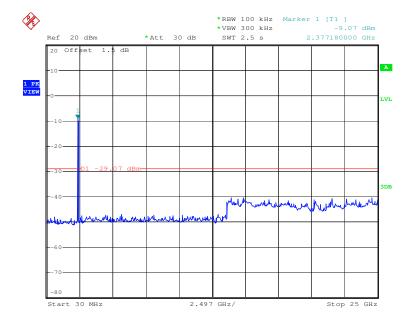
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Test mode: 802.11n(HT20) Test channel: Highest



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

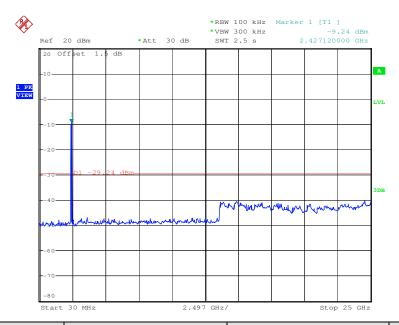




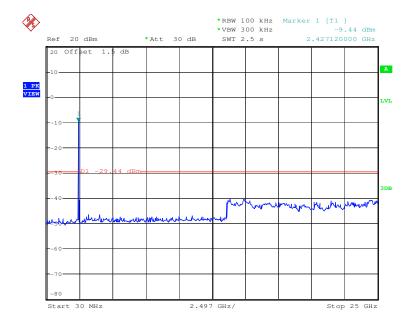
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Test mode: 802.11n(HT40) Test channel: Middle



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 IGHZ	Peak	1MHz	10Hz	Average					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)					
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300					
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30					
	1.705MHz-30MHz	30	-	-	30					
	30MHz-88MHz	100	40.0	Quasi-peak	3					
	88MHz-216MHz	150	43.5	Quasi-peak	3					
	216MHz-960MHz	200	46.0	Quasi-peak	3					
	960MHz-1GHz	500	54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	Note: 15.35(b), Unless of	-		-						
	emissions is 20dB		-	_						
	applicable to the peak	equipment under	test. This p	eak limit app	olies to the total					
	emission level rad	iated by the device	Э.							

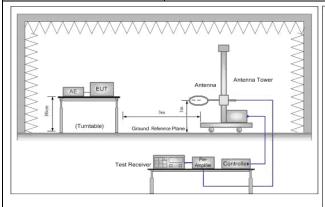
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Test Setup:



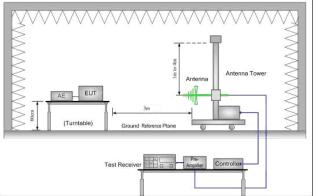


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

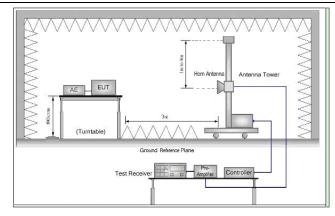


Figure 3. Above 1 GHz

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:	Charge +Transmitting mode and Transmitting mode.
Final Test Mode:	Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass





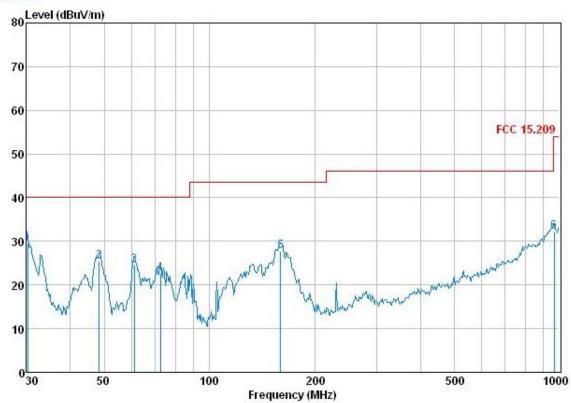
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5.8.1 Radiated emission below 1GHz

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





Condition: FCC 15.209 3m 3142C NEW VERTICAL

Job No : 1095RF

Mode : charge+TX mode

		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	30.211	0.60	17.73	27.36	38.71	29.68	40.00	-10.32
2	48.332	0.77	8.18	27.30	43.79	25.44	40.00	-14.56
3	60.918	0.80	4.94	27.26	45.97	24.45	40.00	-15.55
4	72.338	0.87	4.71	27.24	44.37	22.71	40.00	-17.29
5	159.784	1.34	9.50	26.86	43.74	27.72	43.50	-15.78
6	965.542	3.67	21.13	26.47	33.78	32.11	54.00	-21.89

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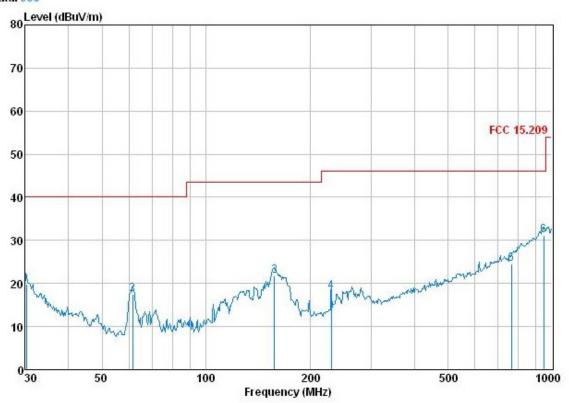


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Test mode: Charge +Transmitting mode Horiz	rizontal
--	----------

Data: 936



Condition: FCC 15.209 3m 3142C NEW HORIZONTAL

Job No : 1095RF

Mode : charge+TX mode

		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	30.211	0.60	17.73	27.36	28.92	19.89	40.00	-20.11
2	61.346	0.80	4.85	27.26	39.08	17.47	40.00	-22.53
3	157.559	1.33	9.55	26.87	37.69	21.70	43.50	-21.80
4	230.099	1.57	8.10	26.59	35.06	18.14	46.00	-27.86
5	763.376	3.10	18.17	27.34	30.53	24.46	46.00	-21.54
6	948.761	3.65	21.40	26.54	32.59	31.10	46.00	-14.90

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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
2935.153	3.28	33.31	40.26	47.76	44.09	74	-29.91	Vertical
3700.260	3.91	33.45	40.81	49.50	46.05	74	-27.95	Vertical
4933.497	4.75	34.51	41.72	48.26	45.80	74	-28.20	Vertical
6494.564	5.26	36.28	40.50	49.64	50.68	74	-23.32	Vertical
8292.376	6.19	36.12	38.93	47.65	51.03	74	-22.97	Vertical
10480.590	6.09	38.28	37.65	45.65	52.37	74	-21.63	Vertical
3625.669	3.84	33.34	40.76	51.59	48.01	74	-25.99	Horizontal
4547.561	4.53	35.12	41.44	49.45	47.66	74	-26.34	Horizontal
5850.919	5.07	35.45	41.06	50.43	49.89	74	-24.11	Horizontal
7394.878	6.00	35.96	39.71	49.27	51.52	74	-22.48	Horizontal
9065.084	6.14	36.66	38.27	47.01	51.54	74	-22.46	Horizontal
11457.210	6.34	38.41	38.05	45.91	52.61	74	-21.39	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
3662.775	3.87	33.41	40.79	49.78	46.27	74	-27.73	Vertical
4772.910	4.67	34.76	41.61	49.00	46.82	74	-27.18	Vertical
6094.137	5.15	35.82	40.84	49.74	49.87	74	-24.13	Vertical
7941.185	6.21	36.00	39.24	48.57	51.54	74	-22.46	Vertical
9370.083	6.05	37.03	37.99	46.37	51.46	74	-22.54	Vertical
10243.220	6.03	38.00	37.54	45.50	51.99	74	-22.01	Vertical
2927.691	3.28	33.28	40.24	49.14	45.46	74	-28.54	Horizontal
3662.775	3.87	33.41	40.79	50.40	46.89	74	-27.11	Horizontal
4501.492	4.49	35.20	41.40	49.46	47.75	74	-26.25	Horizontal
6544.350	5.27	36.27	40.45	49.70	50.79	74	-23.21	Horizontal
8441.459	6.18	36.18	38.80	47.65	51.21	74	-22.79	Horizontal
10999.950	6.22	38.50	37.86	45.60	52.46	74	-21.54	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
2995.538	3.31	33.38	40.30	48.86	45.25	74	-28.75	Vertical
3700.260	3.91	33.45	40.81	50.20	46.75	74	-27.25	Vertical
5073.591	4.80	34.48	41.73	50.14	47.69	74	-26.31	Vertical
6428.771	5.24	36.20	40.55	50.00	50.89	74	-23.11	Vertical
7880.772	6.21	36.00	39.29	48.99	51.91	74	-22.09	Vertical
10480.590	6.09	38.28	37.65	46.34	53.06	74	-20.94	Vertical
2846.851	3.23	33.19	40.19	48.49	44.72	74	-29.28	Horizontal
3700.260	3.91	33.45	40.81	51.38	47.93	74	-26.07	Horizontal
5244.295	4.86	34.65	41.58	50.16	48.09	74	-25.91	Horizontal
6903.705	5.45	35.90	40.13	50.76	51.98	74	-22.02	Horizontal
8703.294	6.17	36.36	38.59	47.58	51.52	74	-22.48	Horizontal
10999.950	6.22	38.50	37.86	45.53	52.39	74	-21.61	Horizontal

Test mode:	802	.11g	Test ch	annel:	Lowest	Remark		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarizatio n
3184.250	3.47	33.33	40.44	48.57	44.93	74	-29.07	Vertical
4107.316	4.23	34.13	41.12	48.37	45.61	74	-28.39	Vertical
5138.579	4.82	34.53	41.66	49.66	47.35	74	-26.65	Vertical
6544.350	5.27	36.27	40.45	49.31	50.40	74	-23.60	Vertical
7547.013	6.17	36.00	39.57	49.76	52.36	74	-21.64	Vertical
9960.375	5.98	37.67	37.48	46.21	52.38	74	-21.62	Vertical
2617.477	3.10	32.86	40.02	48.31	44.25	74	-29.75	Horizontal
3700.260	3.91	33.45	40.81	48.79	45.34	74	-28.66	Horizontal
5352.186	4.90	34.75	41.48	48.97	47.14	74	-26.86	Horizontal
6696.010	5.31	36.11	40.31	49.31	50.42	74	-23.58	Horizontal
8973.250	6.16	36.57	38.34	46.98	51.37	74	-22.63	Horizontal
11140.850	6.26	38.47	37.92	45.91	52.72	74	-21.28	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
3143.979	3.44	33.34	40.41	48.31	44.68	74	-29.32	Vertical
4490.048	4.48	35.15	41.40	49.79	48.02	74	-25.98	Vertical
5462.297	4.94	34.85	41.38	49.55	47.96	74	-26.04	Vertical
6494.564	5.26	36.28	40.50	50.10	51.14	74	-22.86	Vertical
7961.425	6.21	36.00	39.23	48.17	51.15	74	-22.85	Vertical
9834.406	5.98	37.54	37.60	46.08	52.00	74	-22.00	Vertical
2839.613	3.23	33.17	40.19	47.46	43.67	74	-30.33	Horizontal
3662.775	3.87	33.41	40.79	50.71	47.20	74	-26.80	Horizontal
5034.994	4.79	34.43	41.76	49.13	46.59	74	-27.41	Horizontal
6816.394	5.35	35.99	40.22	48.52	49.64	74	-24.36	Horizontal
8527.851	6.18	36.23	38.73	47.44	51.12	74	-22.88	Horizontal
11112.520	6.25	38.48	37.91	45.69	52.51	74	-21.49	Horizontal

Test mode:	802	2.11g	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)			Polarization
3283.018	3.55	33.29	40.51	48.98	45.31	74	-28.69	Vertical
4366.067	4.41	34.83	41.30	48.85	46.79	74	-27.21	Vertical
5674.896	5.01	35.18	41.20	49.01	48.00	74	-26.00	Vertical
6816.394	5.35	35.99	40.22	48.95	50.07	74	-23.93	Vertical
8104.559	6.20	36.04	39.10	48.75	51.89	74	-22.11	Vertical
10427.370	6.08	38.22	37.62	45.74	52.42	74	-21.58	Vertical
3151.992	3.44	33.34	40.41	47.85	44.22	74	-29.78	Horizontal
3700.260	3.91	33.45	40.81	49.56	46.11	74	-27.89	Horizontal
4772.910	4.67	34.76	41.61	48.43	46.25	74	-27.75	Horizontal
6047.776	5.14	35.76	40.87	48.69	48.72	74	-25.28	Horizontal
7413.726	6.02	35.97	39.69	48.16	50.46	74	-23.54	Horizontal
9960.375	5.98	37.67	37.48	45.30	51.47	74	-22.53	Horizontal



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Test mode:	802.	11n (HT20)) Test c	hannel:	Lowest	Remark:	F	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
3445.704	3.69	33.22	40.63	48.87	45.15	74	-28.85	Vertical
4594.102	4.55	35.06	41.47	48.58	46.72	74	-27.28	Vertical
5850.919	5.07	35.45	41.06	49.37	48.83	74	-25.17	Vertical
7547.013	6.17	36.00	39.57	47.81	50.41	74	-23.59	Vertical
8725.477	6.17	36.37	38.55	47.30	51.29	74	-22.71	Vertical
10453.950	6.09	38.24	37.64	46.35	53.04	74	-20.96	Vertical
3112.129	3.41	33.36	40.38	49.34	45.73	74	-28.27	Horizontal
3662.775	3.87	33.41	40.79	51.43	47.92	74	-26.08	Horizontal
4858.719	4.72	34.62	41.67	48.66	46.33	74	-27.67	Horizontal
6412.427	5.23	36.18	40.56	49.36	50.21	74	-23.79	Horizontal
7961.425	6.21	36.00	39.23	47.70	50.68	74	-23.32	Horizontal
10480.590	6.09	38.28	37.65	46.12	52.84	74	-21.16	Horizontal

Test mode:	80	2.11n (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
3080.601	3.38	33.37	40.37	48.32	44.70	74	-29.30	Vertical
4181.159	4.28	34.31	41.16	48.26	45.69	74	-28.31	Vertical
5393.215	4.92	34.78	41.45	49.04	47.29	74	-26.71	Vertical
6544.350	5.27	36.27	40.45	48.49	49.58	74	-24.42	Vertical
8703.294	6.17	36.36	38.59	47.39	51.33	74	-22.67	Vertical
10560.940	6.11	38.32	37.68	45.74	52.49	74	-21.51	Vertical
3700.260	3.91	33.45	40.81	49.82	46.37	74	-27.63	Horizontal
4933.497	4.75	34.51	41.72	49.35	46.89	74	-27.11	Horizontal
6561.030	5.27	36.25	40.43	49.14	50.23	74	-23.77	Horizontal
8549.586	6.18	36.24	38.72	47.33	51.03	74	-22.97	Horizontal
10036.730	5.98	37.76	37.47	45.93	52.20	74	-21.80	Horizontal
12055.600	6.48	38.95	38.30	46.17	53.30	74	-20.70	Horizontal



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Test mode:		802.	11n (HT20)	Test ch	annel:	Hiç	ghest	Remark:		Pe	eak
Frequency (MHz)	Lo	ble ss B)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV))	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB	it	Polarization
3151.992	3.4	44	33.34	40.41	48.64		45.01	74	-28.9	99	Vertical
4034.777	4.	18	33.94	41.07	47.55		44.60	74	-29.4	10	Vertical
5191.168	4.8	84	34.60	41.62	49.48		47.30	74	-26.7	70	Vertical
6764.538	5.3	33	36.04	40.27	49.62		50.72	74	-23.2	28	Vertical
8703.294	6.	17	36.36	38.59	47.33		51.27	74	-22.7	73	Vertical
11112.520	6.2	25	38.48	37.91	46.07		52.89	74	-21.1	1	Vertical
2678.135	3.	14	32.96	40.06	48.87		44.91	74	-29.0)9	Horizontal
3625.669	3.8	84	33.34	40.76	51.59		48.01	74	-25.9	9	Horizontal
4594.102	4.	55	35.06	41.47	49.50		47.64	74	-26.3	36	Horizontal
5560.500	4.9	97	34.98	41.30	51.32		49.97	74	-24.0)3	Horizontal
6678.987	5.3	30	36.13	40.33	49.68		50.78	74	-23.2	22	Horizontal
8022.456	6.2	20	36.01	39.16	48.91		51.96	74	-22.0)4	Horizontal

Test mode:	802	.11n (HT40)	Test ch	annel:	Lowest	Remark:	Remark: P	
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
3057.166	3.36	33.38	40.34	47.91	44.31	74	-29.69	Vertical
4399.537	4.42	34.92	41.33	47.72	45.73	74	-28.27	Vertical
5560.500	4.97	34.98	41.30	49.32	47.97	74	-26.03	Vertical
7045.735	5.58	35.82	40.02	48.49	49.87	74	-24.13	Vertical
8022.456	6.20	36.01	39.16	48.33	51.38	74	-22.62	Vertical
10453.950	6.09	38.24	37.64	45.99	52.68	74	-21.32	Vertical
2927.691	3.28	33.28	40.24	49.14	45.46	74	-28.54	Horizontal
4055.371	4.20	33.99	41.08	49.00	46.11	74	-27.89	Horizontal
5338.579	4.90	34.73	41.50	49.38	47.51	74	-26.49	Horizontal
6544.350	5.27	36.27	40.45	49.70	50.79	74	-23.21	Horizontal
8441.459	6.18	36.18	38.80	47.65	51.21	74	-22.79	Horizontal
10999.950	6.22	38.50	37.86	46.60	53.46	74	-20.54	Horizontal



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Test mode:	802	.11n (HT40)	Test ch	annel:	Middle	Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	actor Level (Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3143.979	3.44	33.34	40.41	49.25	45.62	74	-28.38	8 Vertical
4149.351	4.27	34.22	41.15	49.05	46.39	74	-27.61	Vertical
5617.407	4.99	35.09	41.25	50.21	49.04	74	-24.96	S Vertical
6974.358	5.50	35.83	40.08	49.31	50.56	74	-23.44	Vertical
8377.241	6.19	36.15	38.87	48.61	52.08	74	-21.92	2 Vertical
10480.590	6.09	38.28	37.65	46.34	53.06	74	-20.94	Vertical
2987.923	3.31	33.38	40.30	48.22	44.61	74	-29.39	Horizontal
3943.392	4.11	33.74	41.00	48.67	45.52	74	-28.48	B Horizontal
4920.955	4.74	34.51	41.71	48.65	46.19	74	-27.81	Horizontal
6032.401	5.13	35.74	40.89	49.41	49.39	74	-24.61	Horizontal
7860.737	6.21	36.00	39.31	48.48	51.38	74	-22.62	. Horizontal
9441.913	6.03	37.14	37.94	46.77	52.00	74	-22.00	Horizontal

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Test mode:	802	2.11n (HT40) Test o	hannel:	Highest	Remark:	ı	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
2839.613	3.23	33.17	40.19	47.18	43.39	74	-30.61	Vertical
4024.520	4.18	33.89	41.05	47.40	44.42	74	-29.58	Vertical
5689.360	5.02	35.20	41.19	49.74	48.77	74	-25.23	Vertical
7190.687	5.75	35.88	39.89	47.59	49.33	74	-24.67	Vertical
8527.851	6.18	36.23	38.73	46.87	50.55	74	-23.45	Vertical
10480.590	6.09	38.28	37.65	45.86	52.58	74	-21.42	Vertical
2832.394	3.22	33.17	40.17	48.44	44.66	74	-29.34	Horizontal
3489.840	3.73	33.21	40.66	47.90	44.18	74	-29.82	Horizontal
4223.950	4.31	34.45	41.21	48.68	46.23	74	-27.77	Horizontal
5560.500	4.97	34.98	41.30	49.54	48.19	74	-25.81	Horizontal
6974.358	5.50	35.83	40.08	49.06	50.31	74	-23.69	Horizontal
9562.854	6.00	37.27	37.83	46.14	51.58	74	-22.42	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 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 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.

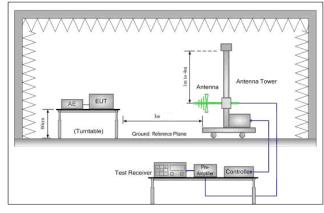


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5.9 Band Edge (Radiated Emission)

Test Requirement:	47 CFR Part 15C Section	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	Limit (dBuV/m @3m)	Remark								
	30MHz-88MHz										
	88MHz-216MHz	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:											



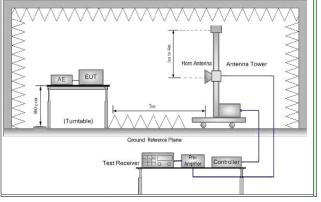


Figure 1. 30MHz to 1GHz

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. 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, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 7.2Mbps of rate is the worst case of 802.11n(HT20); 15Mbps of rate is the worst case of 802.11n(HT40).
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

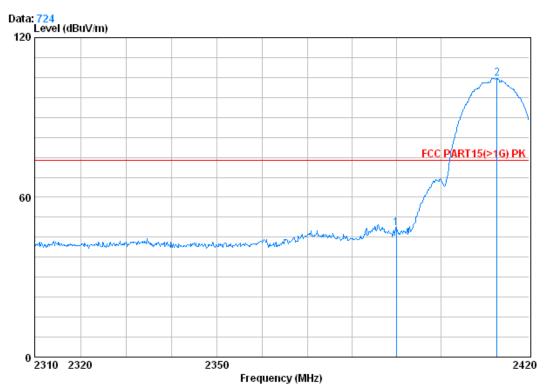


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Test plot as follows:

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



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

Job No. : 1095RF

Test mode : B 2412 Bandedge

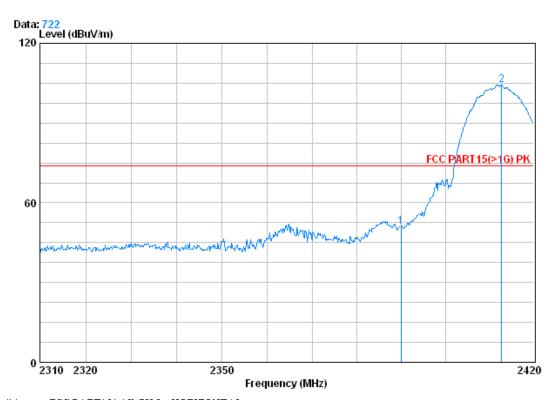
	Freq		Antenna Factor	-				Over Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2390.000	2.98	32.51	39.85	52.62	48.27	74.00	-25.73	Peak
2 @	2412.740	2.99	32.54	39.86	109.09	104.76	74.00	30.76	Peak



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



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

Job No. : 1095RF

Test mode : B 2412 Bandedge

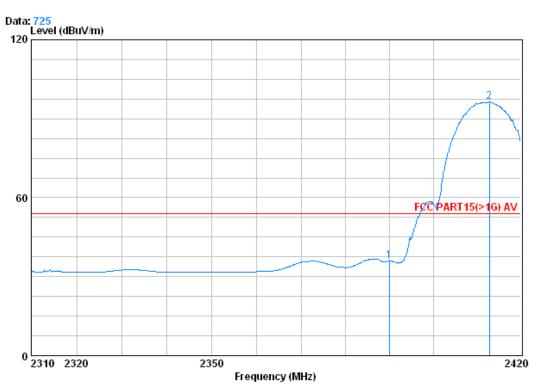
		Cablei	intenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	55.48	51.13	74.00	-22.87	Peak
2 0	2412.740	2.99	32.54	39.86	108.74	104.41	74.00	30.41	Peak



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



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

Job No. : 1095RF

Test mode : B 2412 Bandedge

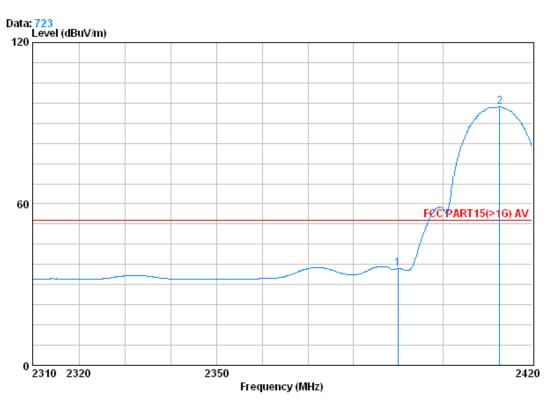
		Cablei	lntenna	${\tt Preamp}$	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	${\tt dBuV/m}$	dB	
1	2390.000	2.98	32.51	39.85	40.32	35.97	54.00	-18.03	Peak
2 0	2412.850	2.99	32.54	39.86	100.74	96.41	54.00	42.41	Peak



Report No.: SZEM130300109501

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



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

Job No. : 1095RF

Test mode : B 2412 Bandedge

		Cable	intenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			,			,	,		
1	2390.000	2 98	32 51	39.85	40 38	36.03	54 00	_17 97	Dear
1	2090.000	4.50	32.31	33.03	10.50	30.03	34.00	-11.51	reak
2 0	2412.740	2.99	32.54	39.86	100.43	96.10	54.00	42.10	Peak

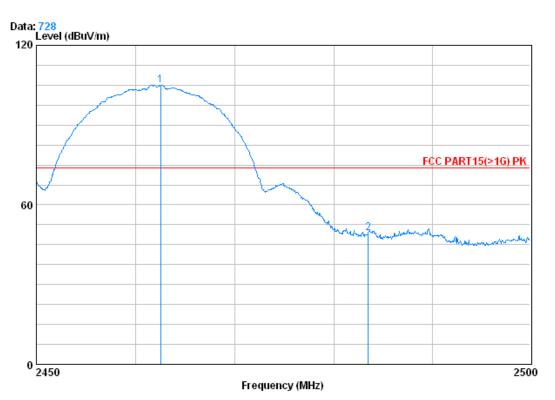
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Vertical



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

Job No. : 1095RF

Test mode : B 2462 Bandedge

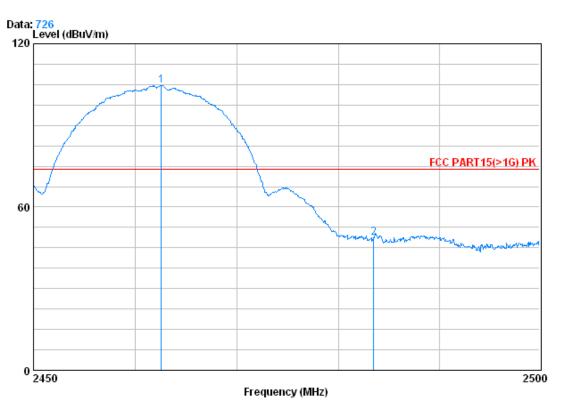
	Freq			•	Read Level Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.500	3.02	32.64	39.91	109.24	105.00	74.00	31.00	Peak
2	2483.500	3.03	32.67	39.92	53.68	49.46	74.00	-24.54	Peak



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



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

Job No. : 1095RF

Test mode : B 2462 Bandedge

	Freq			Preamp Read Factor Level			Limit Line		Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1 0	2462.550	3.02	32.64	39.91	108.79	104.54	74.00	30.54	Peak
2	2483.500	3.03	32.67	39.92	53.00	48.78	74.00	-25.22	Peak

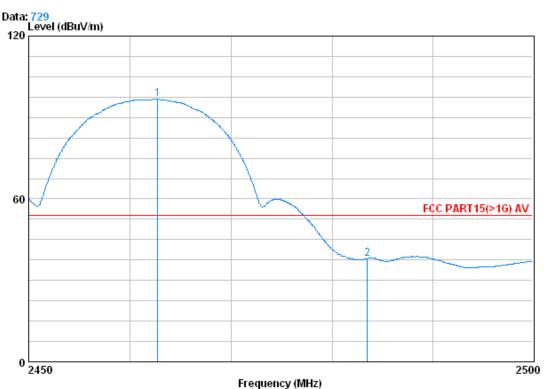
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Worse case mode: 802.11b Test channel: Highest Remark: Average Vertical



: FCC PART15(>1G) AV 3m VERTICAL

Job No. : 1095RF

Condition

Test mode : B 2462 Bandedge

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 0	2462.700	3.02	32.64	39.91	100.97	96.72	54.00	42.72	Peak
2	2483.500	3.03	32.67	39.92	42.23	38.01	54.00	-15.99	Peak

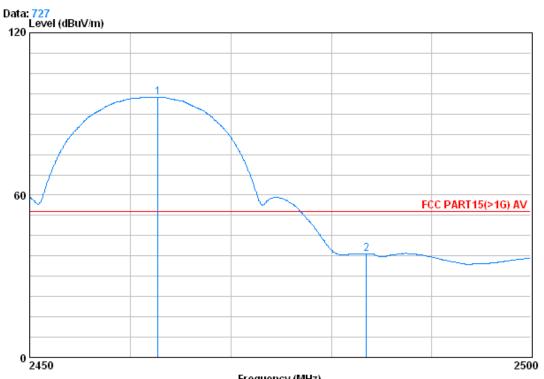
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Worse case mode: 802.11b Test channel: Highest Remark: Average Horizontal



Frequency (MHz)

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

Job No. : 1095RF

Test mode : B 2462 Bandedge

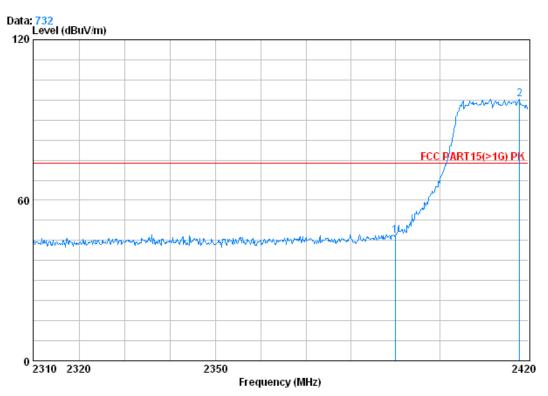
		Cablei	lntenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.700	3.02	32.64	39.91	100.52	96.27	54.00	42.27	Peak
2	2483.500	3.03	32.67	39.92	42.50	38.28	54.00	-15.72	Peak



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



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

Job No. : 1095RF

Test mode : G 2412 Bandedge

	Freq			-	Read Level			Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2390.000	2.98	32.51	39.85	51.16	46.80	74.00	-27.20	Peak
X	2418.020	2.99	32.54	39.88	102.16	97.82	74.00	23.82	Peak

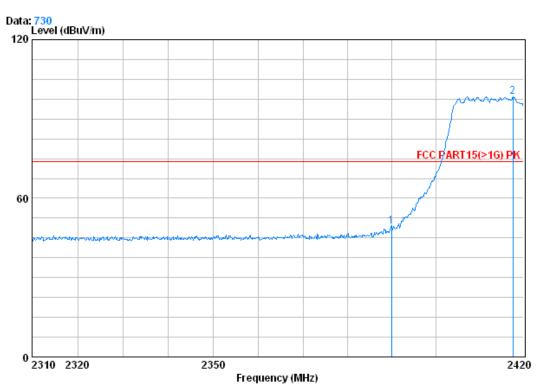




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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



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

Job No. : 1095RF

Test mode : G 2412 Bandedge

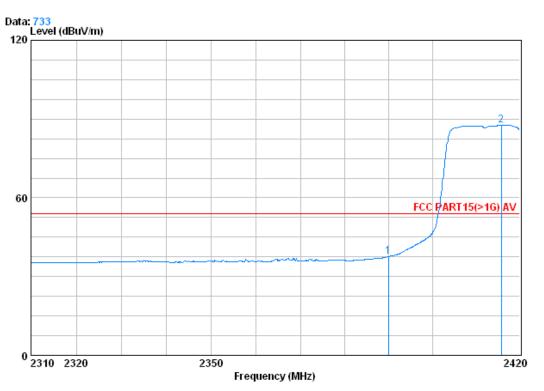
	Freq			-				Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	53.62	49.27	74.00	-24.73	Peak
2 X	2417.580	2.99	32.54	39.88	102.69	98.35	74.00	24.35	Peak



Report No.: SZEM130300109501

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



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

Job No. : 1095RF

Test mode : G 2412 Bandedge

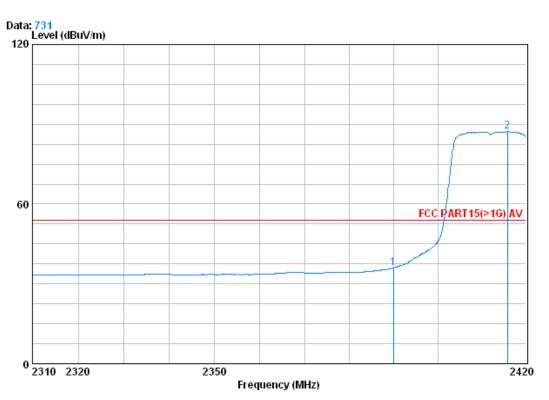
		Cable	intenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	41.95	37.60	54.00	-16.40	Peak
2 0	2415.820	2.99	32.54	39.88	92.03	87.69	54.00	33.69	Peak



Report No.: SZEM130300109501

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



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

Job No. : 1095RF

Test mode : G 2412 Bandedge

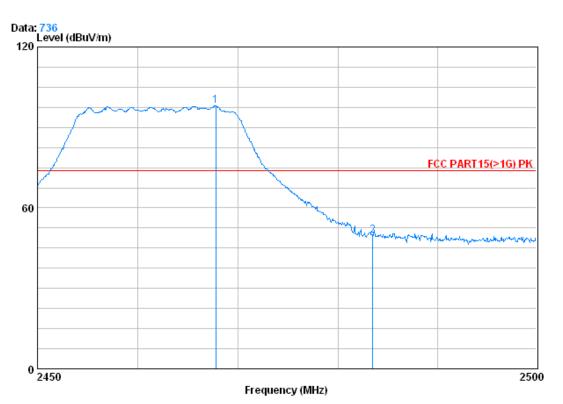
	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	40.45	36.09	54.00	-17.91	Peak
2 0	2415.820	2.99	32.54	39.88	91.54	87.20	54.00	33.20	Peak



Report No.: SZEM130300109501

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



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

Job No. : 1095RF

Test mode : G 2462 Bandedge

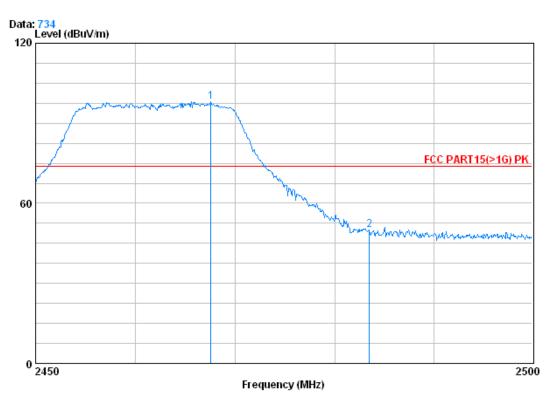
	Freq			-	Read Level		Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 X	2467.750	3.02	32.64	39.91	102.26	98.02	74.00	24.02	Peak	
2	2483.500	3.03	32.67	39.92	54.04	49.82	74.00	-24.18	Peak	



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



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

Job No. : 1095RF

Test mode : G 2462 Bandedge

	Freq			Preamp Factor		Level		Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2467.550	3.02	32.64	39.91	102.21	97.97	74.00	23.97	Peak
2	2483.500	3.03	32.67	39.92	54.32	50.10	74.00	-23.90	Peak

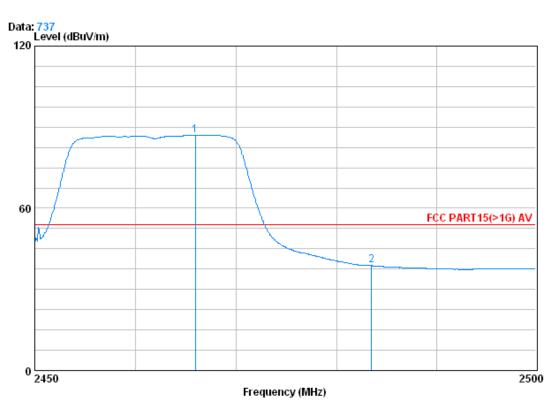
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Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



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

Job No. : 1095RF

Test mode : G 2462 Bandedge

		Cablei	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2465.900	3.02	32.64	39.91	91.38	87.14	54.00	33.14	Peak
2	2483.500	3.03	32.67	39.92	43.01	38.79	54.00	-15.21	Peak

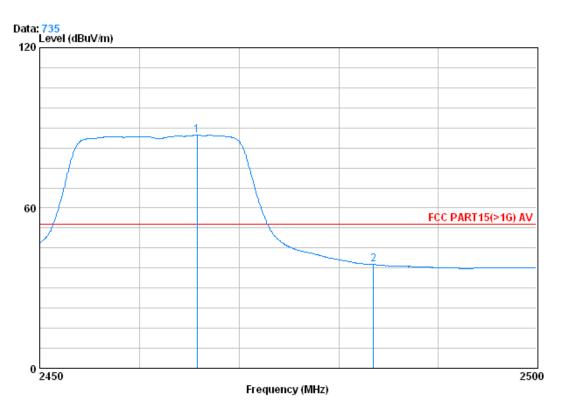
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Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



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

Job No. : 1095RF

Test mode : G 2462 Bandedge

	ŭ	Cablei	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2465.750	3.02	32.64	39.91	91.46	87.21	54.00	33.21	Peak
2	2483.500	3.03	32.67	39.92	43.07	38.86	54.00	-15.14	Peak

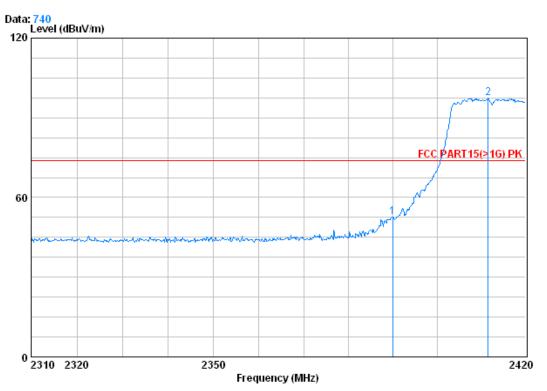
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



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

Job No. : 1095RF

Test mode : N(HT20) 2412 Bandedge

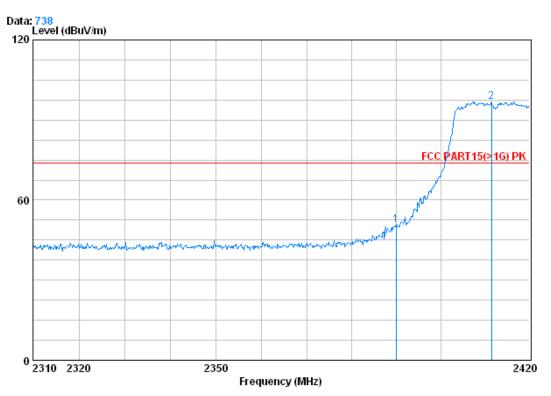
		Ю-								
		Cable	Antenna	Preamp	Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2390.000	2.98	32.51	39.85	56.93	52.57	74.00	-21.43	Peak	
2 X	2411.530	2.99	32.54	39.86	101.71	97.39	74.00	23.39	Peak	



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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. : 1095RF

	Freq	Cable.		Preamp Factor				Over Limit Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	55.14	50.79	74.00	-23.21	Peak
2 X	2411.420	2.99	32.54	39.86	101.15	96.83	74.00	22.83	Peak

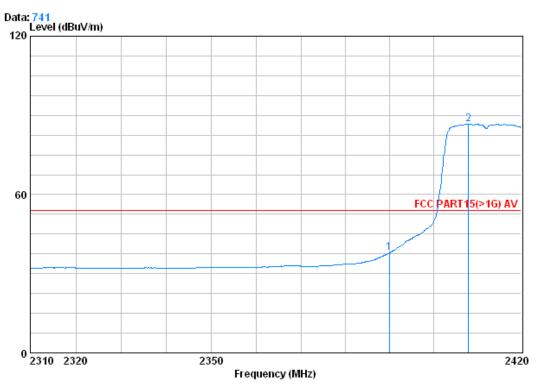
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Vertical



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

Job No. : 1095RF

Test mode : N(HT20) 2412 Bandedge

•	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
1				39.85					
20	2408.010	2.99	32.54	39.86	90.91	86.59	54.00	32.59	Peak

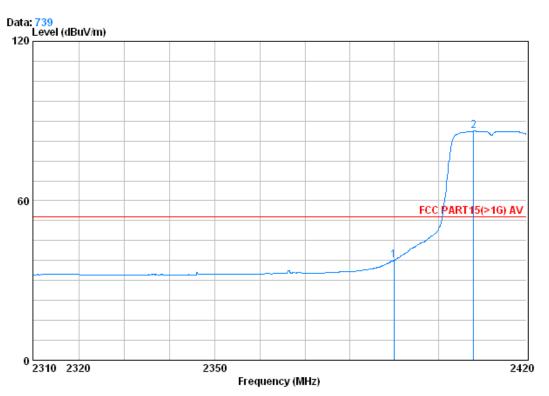




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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Horizontal



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

Job No. : 1095RF

Test mode : N(HT20) 2412 Bandedge

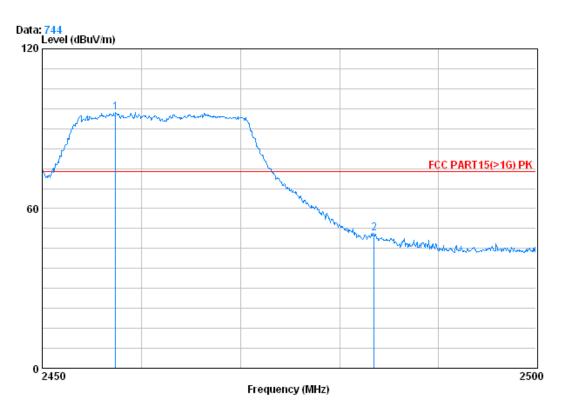
	`	Freq			Preamp Factor			Limit Line		Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2390.000	2.98	32.51	39.85	41.99	37.63	54.00	-16.37	Peak
2 0		2408.010	2.99	32.54	39.86	90.50	86.17	54.00	32.17	Peak



Report No.: SZEM130300109501

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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. : 1095RF

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2457.350	3.02	32.64	39.91	100.47	96.22	74.00	22.22	Peak
2	2483.500	3.03	32.67	39.92	54.95	50.73	74.00	-23.27	Peak

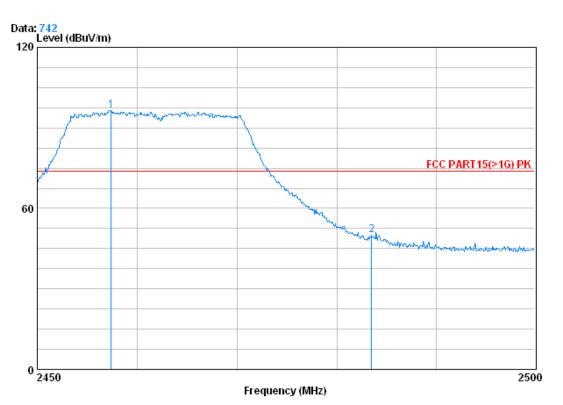
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



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

Job No. : 1095RF

Test mode : N(HT20) 2462 Bandedge

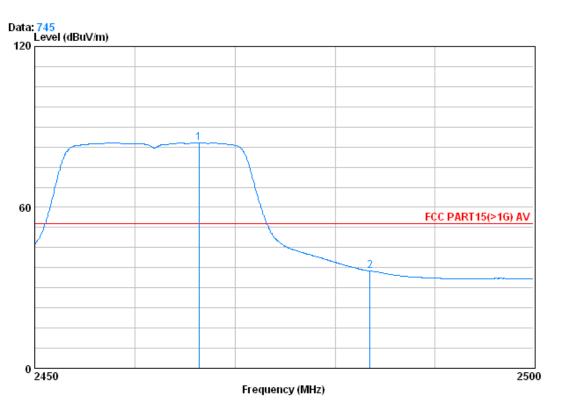
	CableAntenna Preamp Re Freq Loss Factor Factor Lev						Over Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2457.350	3.02	32.64	39.91	100.77	96.52	74.00	22.52	Peak
2	2483.500	3.03	32.67	39.92	54.09	49.87	74.00	-24.13	Peak



Report No.: SZEM130300109501

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



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

Job No. : 1095RF

Test mode : N(HT20) 2462 Bandedge

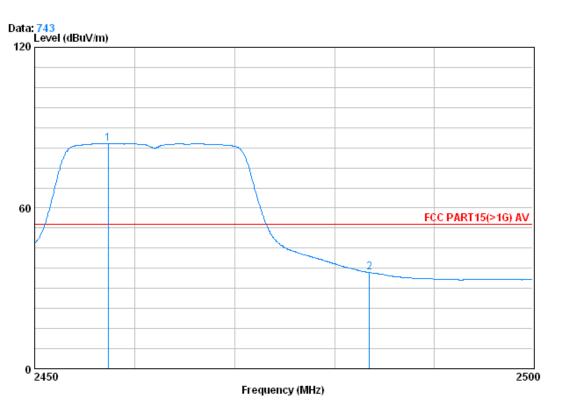
	`	Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0		2466.350	3.02	32.64	39.91	88.27	84.02	54.00	30.02	Peak
2		2483.500	3.03	32.67	39.92	40.55	36.33	54.00	-17.67	Peak



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



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

Job No. : 1095RF

Test mode : N(HT20) 2462 Bandedge

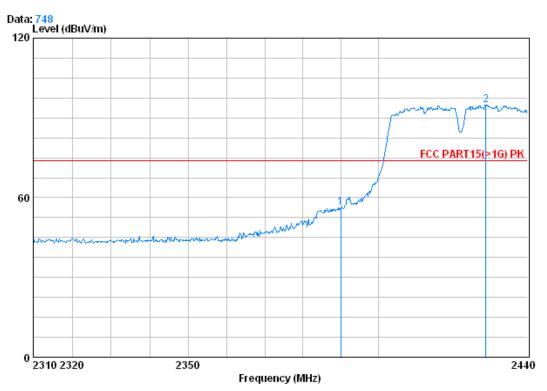
	`	Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0		2457.300	3.02	32.64	39.91	88.37	84.13	54.00	30.13	Peak
2		2483.500	3.03	32.67	39.92	40.18	35.97	54.00	-18.03	Peak



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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. : 1095RF

		Cablei	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	2.98	32.51	39.85	60.51	56.16	74.00	-17.84	Peak
2 X	2428.820	3.00	32.58	39.88	99.16	94.86	74.00	20.86	Peak

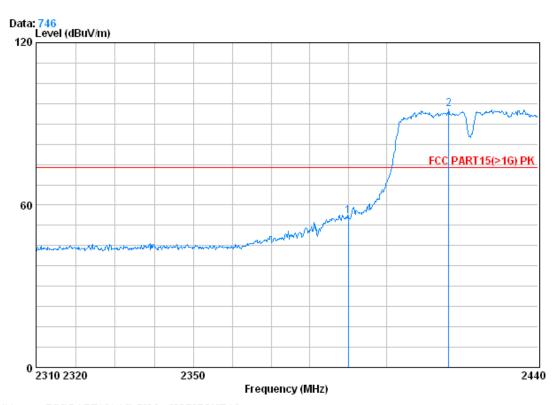
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Horizontal



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

Job No. : 1095RF

	•	Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2390.000	2.98	32.51	39.85	60.19	55.84	74.00	-18.16	Peak
2 X		2416.340	2.99	32.54	39.88	99.66	95.32	74.00	21.32	Peak

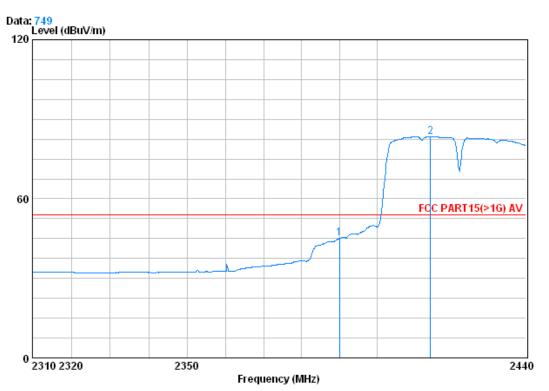
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Vertical



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

Job No. : 1095RF

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 @	2390.000 2414.260			39.85 39.86					

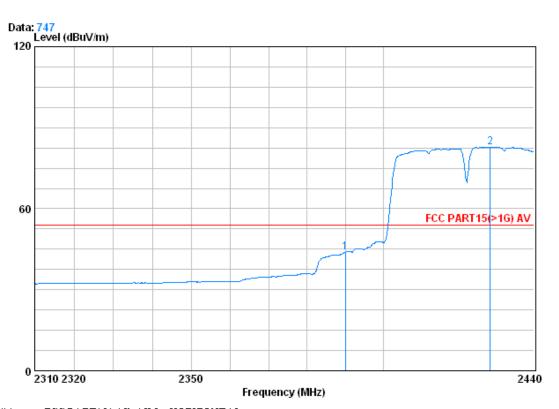
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Worse case mode: 802.11n(HT40) Test channel: Lowest Remark: Average Horizontal



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

Job No. : 1095RF

	`	Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 @		2390.000 2428.300			39.85 39.88					

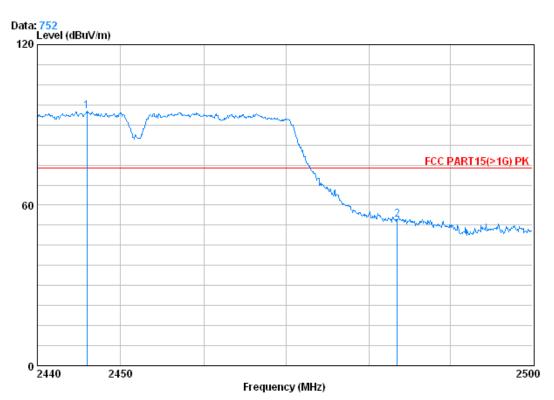
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Vertical



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

Job No. : 1095RF

Test mode : N(HT40) 2452 Bandedge

		.0-							
		Cablei	lntenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-								
	MHz	dB	dB/m		40,,0	dBuV/m	dP1177/m	dB	
	HHZ	ав	ub/m	аь	ивич	ubuv/m	ubuv/m	ав	
1 X	2445.940	3.01	32.61	39.89	99.48	95.21	74.00	21.21	Peak
2	2483.500	3.03	32.67	39.92	58.93	54.71	74.00	-19.29	Peak

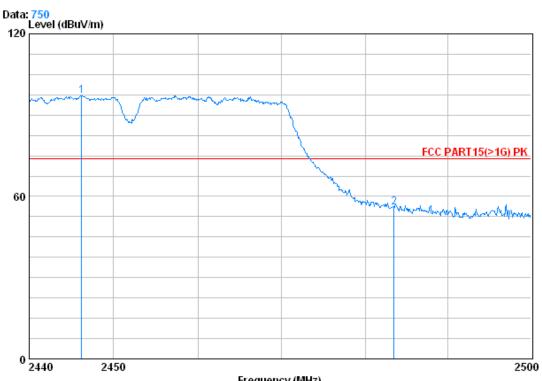




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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal



Frequency (MHz)

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

Job No. : 1095RF

: N(HT40) 2452 Bandedge Test mode

	Freq	CableAntenna Preamp Loss Factor Factor						Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 X	2446.180	3.01	32.61	39.89	101.52	97.25	74.00	23.25	Peak
2	2483.500	3.03	32.67	39.92	60.26	56.04	74.00	-17.96	Peak

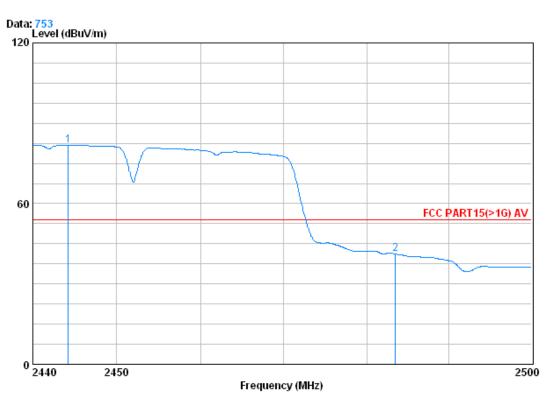
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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Average Vertical



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

Job No. : 1095RF

Test mode : N(HT40) 2452 Bandedge

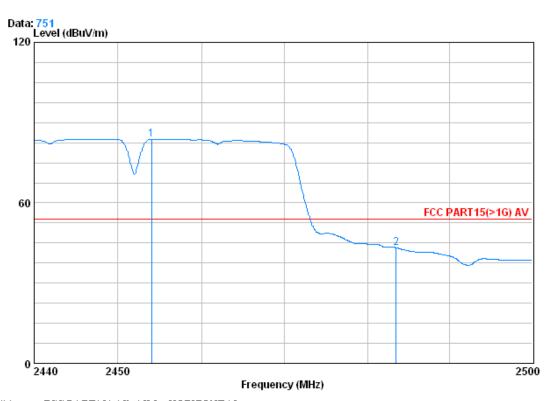
		CableAntenna		Preamp Read		Limit		Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2444.200	3.01	32.61	39.89	86.15	81.87	54.00	27.87	Peak
2	2483.500	3.03	32.67	39.92	45.37	41.15	54.00	-12.85	Peak



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



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

Job No. : 1095RF

Test mode : N(HT40) 2452 Bandedge

	Freq	Cable		Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0 2	2454.040 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

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