

Report No.: SZEM150300140802

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

District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

Email: ee.shenzhen@sgs.com Page: 1 of 95

FCC REPORT

Application No: SZEM1503001408CR

Applicant:Shenzhen TimeLink Technology Co., LtdManufacturer:Shenzhen TimeLink Technology Co., LtdFactory:Shenzhen TimeLink Technology Co., Ltd

Product Name: Timelink Note

Model No.(EUT): Timelink Note 42

FCC ID: 2AEK2NOTE

Standards: 47 CFR Part 15, Subpart C (2015)

Date of Receipt: 2015-03-30

Date of Test: 2015-04-21 to 2016-01-28

Date of Issue: 2016-02-01

Test Result: PASS *

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

Authorized Signature:



Jack Zhang EMC Laboratory Manager

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

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



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2 Version

Revision Record							
Version Chapter Date Modifier Remark							
00		2016-02-01		Original			

Authorized for issue by:		
Tested By	Brir Chen	2015-12-28
	(Bill Chen) /Project Engineer	Date
Prepared By	Jarole Chen	2016-02-01
	(Jade Chen) /Clerk	Date
Checked By	Eric Fu	2016-02-01
	(Eric Fu) /Reviewer	Date



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Shenzhen TimeLink Technology Co., Ltd				
Address of Applicant:	14th Floor, Block C2 , Nanshan Zhi Garden, 1001 Academy Ave, Nanshan District, Shenzhen				
Manufacturer:	Shenzhen TimeLink Technology Co., Ltd				
Address of Manufacturer:	14th Floor, Block C2 , Nanshan Zhi Garden, 1001 Academy Ave, Nanshan District, Shenzhen				
Factory:	Shenzhen TimeLink Technology Co., Ltd				
Address of Factory:	14th Floor, Block C2 , Nanshan Zhi Garden, 1001 Academy Ave, Nanshan District, Shenzhen				

5.2 General Description of EUT

Product Name:	Timelink Note
Model No.:	Timelink Note 42
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 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)
	IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM,
	QPSK,BPSK)
Sample Type:	Fixed production
Antenna gain:	0.8dBi
Antenna Type:	I-PEX external
Power Supply:	MODEL: DW-3001
	INPUT: AC 100-240V~50/60Hz
	OUTPUT: 5.0V = 1000mA

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Operation Frequency each of channel(802.11b/g/n HT20)								
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/n (HT20):

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



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5.3 Test Environment and Mode

Operating Environment:	Operating Environment:						
Temperature:	24.0 °C						
Humidity:	52 % RH						
Atmospheric Pressure:	1010mbar						
Test mode:							
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all						
	kind of data rate.						

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

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5.6 Test Facility

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

CNAS (No. CNAS L2929)

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

• FCC - Registration No.: 556682

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

Industry Canada (IC)

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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13			
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09			
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13			
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30			
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30			
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30			
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13			
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13			
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09			
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24			
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13			



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	RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date	
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13	
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16	
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A	
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-11-15	2017-11-15	
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-17	2016-10-17	
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2017-11-24	
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13	
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-17	2016-10-17	
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13	
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13	
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13	
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13	
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13	
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13	
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09	
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24	
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13	
18	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13	



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RF connected test								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)		
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09		
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24	2016-10-24		
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-17	2016-10-17		
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13		
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13		
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13		
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25		
8	POWER METER	R & S	NRVS	SEL0144	2015-10-09	2016-10-09		
9	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25		

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6 Test results and Measurement Data

6.1 Antenna Requirement

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

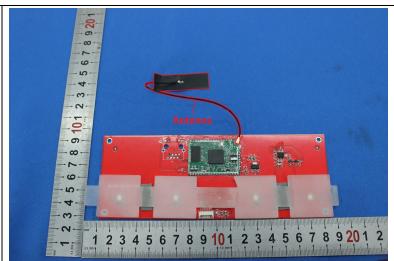
15.203 requirement:

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 0.8dBi.



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6.2 Conducted Emissions

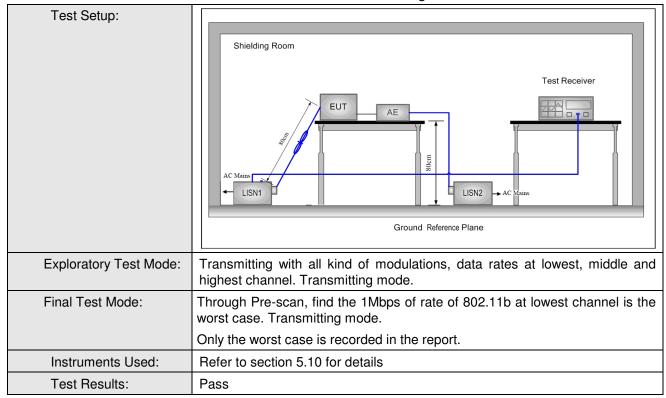
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Francisco (MIII-)	Limit (c	lBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test Procedure:	 The mains terminal disturbation. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS plane in the same way as a multiple socket outlet strip single LISN provided the reason of the tabletop EUT was placed on the horizontal ground reference plane. An placed on the horizontal ground reference plane of the EUT shall be 0.4 m vertical ground reference preference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated experience to find the maximule equipment and all of the in ANSI C63.10: 2013 on corrected 	o AC power source throetwork) which provides bles of all other units of SN 2, which was bonded the LISN 1 for the unit was used to connect mating of the LISN was need upon a non-metallice and for floor-standing are cound reference plane, the a vertical ground reference blane was bonded to the late and reference plane. The dot a ground reference plane. The cound reference plane. The cound reference plane is of the LISN 1 and the quipment was at least 0 are mission, the relative terface cables must be	bugh a LISN 1 (Line a 50Ω/50μH + 5Ω line the EUT were do not the ground reference of the exceeded. The exceeded of the EUT were done the exceeded of the exceeded of the exceeded of the exceeded. The exceeded of the exceed	near ence to a ne was ar ne he	

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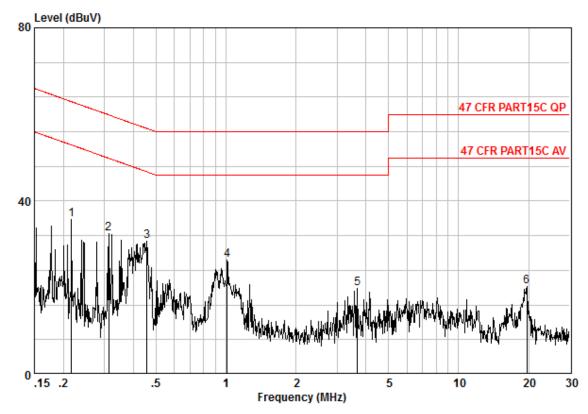
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

Condition : 47 CFR PART15C AV CE LINE

Job.No : 1408CR Test Mode : TX

	Freq	Cable Loss	LISN Factor			Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.21620	0.02	9.83	25.89	35.74	52.96	-17.22	Peak
2	0.31328	0.01	9.84	22.54	32.40	49.88	-17.49	Peak
3	0.45636	0.01	9.86	20.96	30.82	46.76	-15.93	Peak
4	1.010	0.02	9.89	16.51	26.42	46.00	-19.58	Peak
5	3.681	0.02	10.06	9.75	19.83	46.00	-26.17	Peak
6	19.635	0.02	10.29	10.05	20.36	50.00	-29.64	Peak

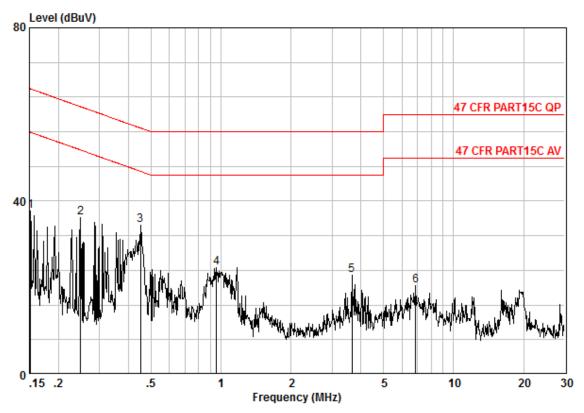
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Neutral Line:



Site : Shielding Room

Condition : 47 CFR PART15C AV CE NEUTRAL

Job.No : 1408CR Test Mode : TX

	Freq		LISN Factor			Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 2	0.15160	0.02	9.62 9.61	28.12				
3 @ 4	0.45155 0.95819	0.01		24.86	34.50	46.85	-12.35	Peak
5 6	3.661 6.878	0.02	9.68 9.74	13.15 10.68				

Notes:

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



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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10 2013				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
	Remark:				
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.				
Test Instruments:	Refer to section 5.10 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;				
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)				
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)	12.99	12.86	12.82	12.73				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	18.07	17.98	17.92	17.87	17.95	17.89	17.85	17.88
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	18.43	18.38	18.22	18.27	18.35	18.19	17.95	17.98

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20).



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Measurement Data

802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	12.99	30.00	Pass			
Middle	12.58	30.00	Pass			
Highest	10.69	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	18.07	30.00	Pass			
Middle	17.38	30.00	Pass			
Highest	15.57	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	18.43	30.00	Pass			
Middle	17.32	30.00	Pass			
Highest	15.62	30.00	Pass			

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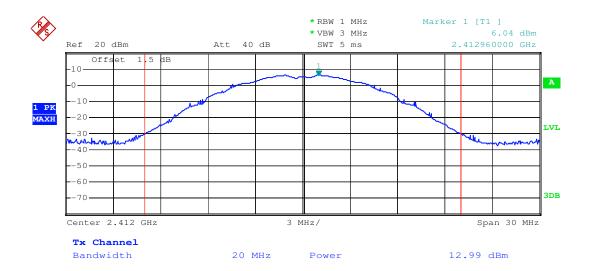


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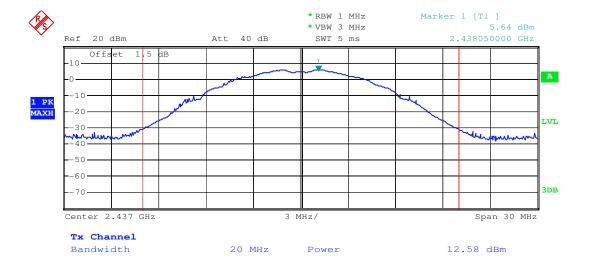
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest









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Test mode: 802.11b Test channel: Highest







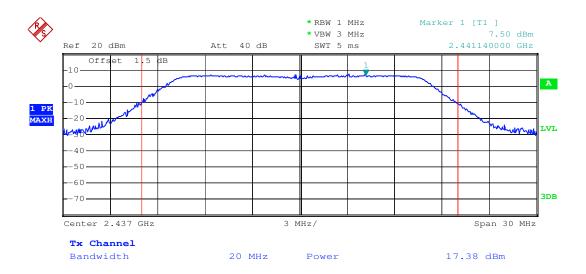
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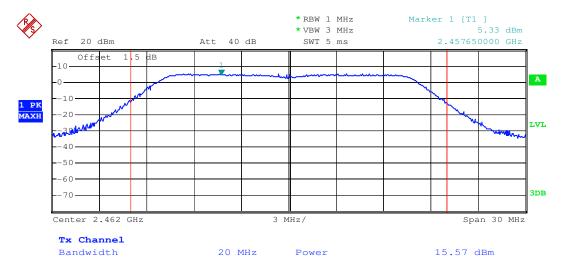
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Test mode: 802.11g Test channel: Middle



Test mode:	802.11g	Test channel:	Highost
TEST HIDGE.	002.11g	i est charinet.	Highest



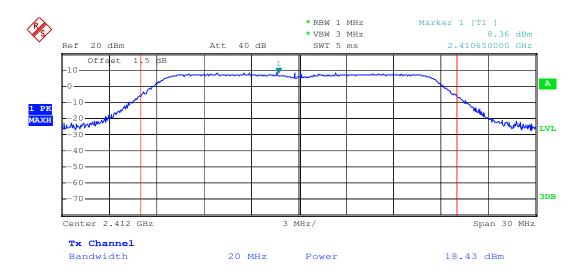




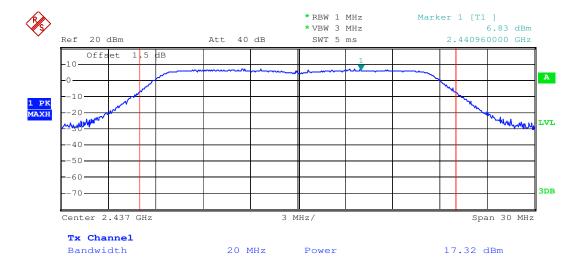
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Test mode: 802.11n(HT20) Test channel: Lowest







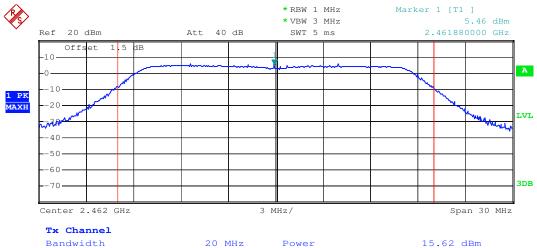
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802.11n(HT20) Test mode: Test channel: Highest



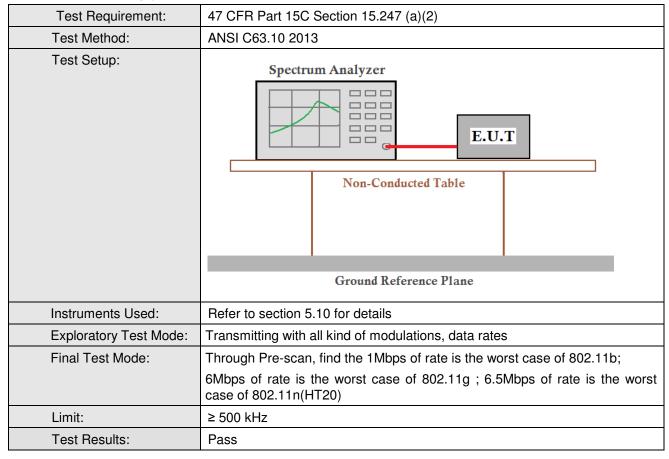
Bandwidth 20 MHz Power



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6.4 6dB Occupy Bandwidth



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Measurement Data

802.11b mode							
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	7.14	≥500	Pass				
Middle	7.14	≥500	Pass				
Highest	7.11	≥500	Pass				
	802.11g mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	16.41	≥500	Pass				
Middle	16.41	≥500	Pass				
Highest	16.38	≥500	Pass				
	802.11n(HT20) mode						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result				
Lowest	17.64	≥500	Pass				
Middle	17.64	≥500	Pass				
Highest	17.61	≥500	Pass				

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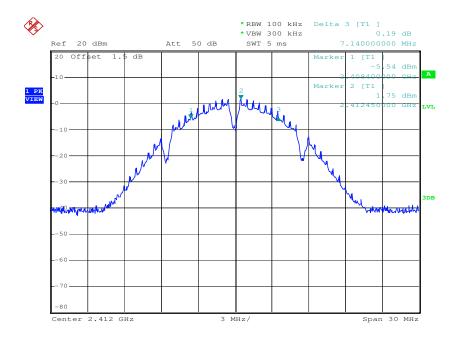


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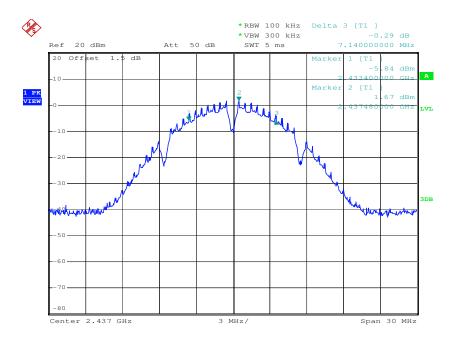
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

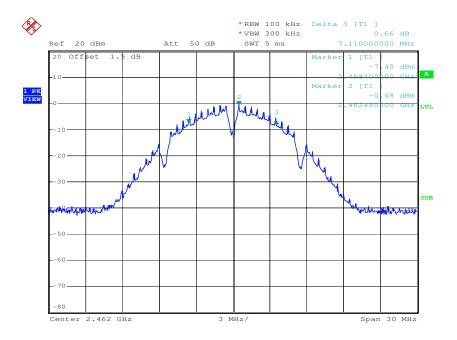




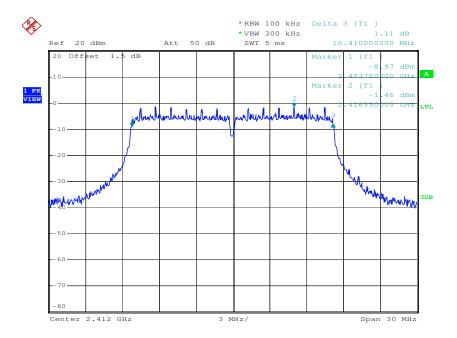
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Test mode: 802.11b Test channel: Highest







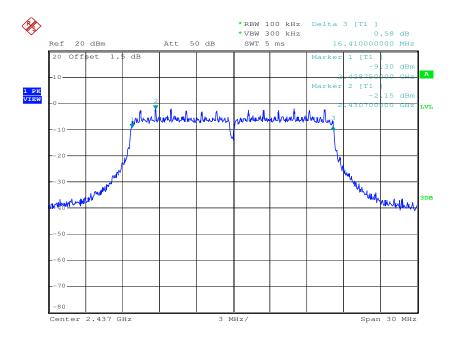
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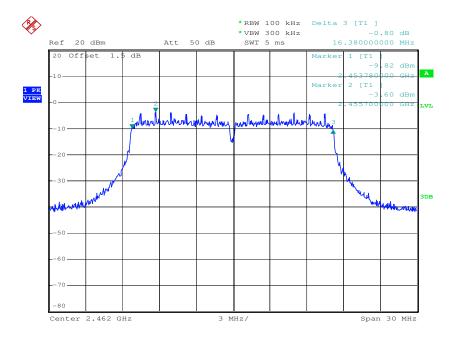
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Test mode: 802.11g Test channel: Middle





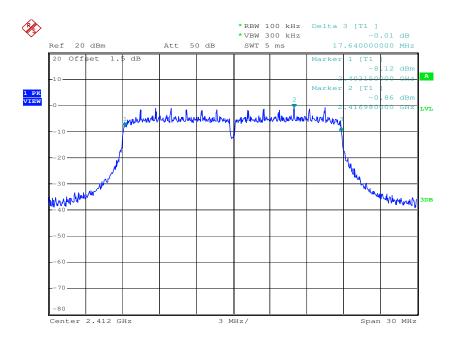


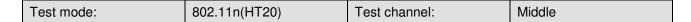


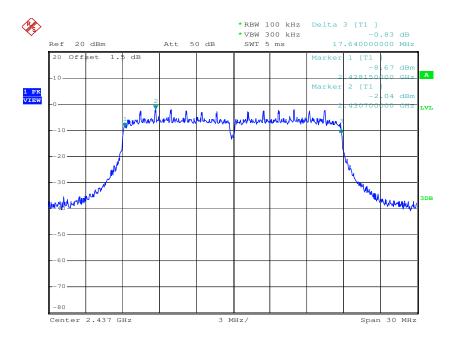
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Test mode: 802.11n(HT20) Test channel: Lowest







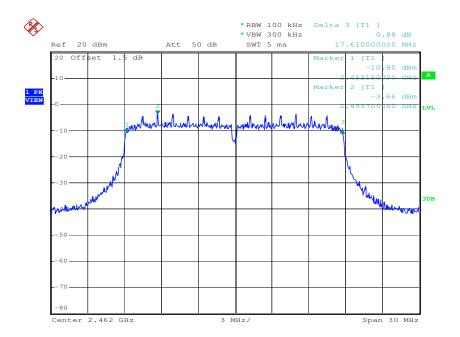
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Test mode: 802.11n(HT20) Test channel: Highest



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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Remark:			
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)			
Limit:	≤8.00dBm/3kHz			
Test Results:	Pass			





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Measurement Data

	802.11b mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-12.62	≤8.00	Pass					
Middle	-13.43	≤8.00	Pass					
Highest	-15.16	≤8.00	Pass					
	802.11g mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-15.21	≤8.00	Pass					
Middle	-7.30	≤8.00	Pass					
Highest	-18.13	≤8.00	Pass					
	802.11n(HT20) mode							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-15.15	≤8.00	Pass					
Middle	-16.67	≤8.00	Pass					
Highest	-17.92	≤8.00	Pass					

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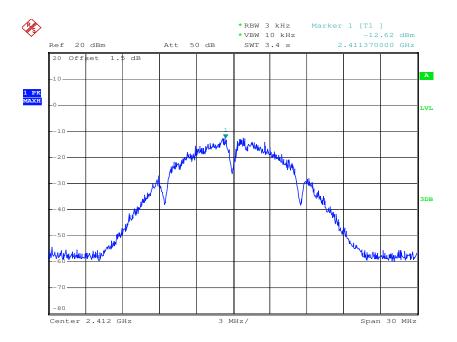


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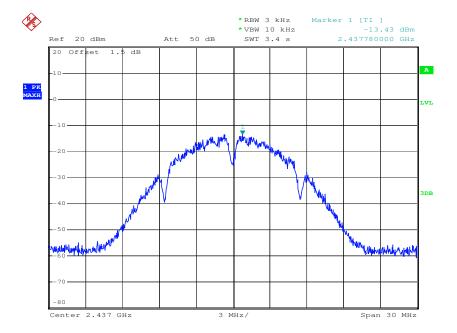
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

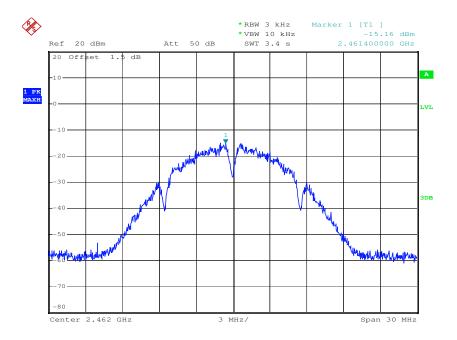




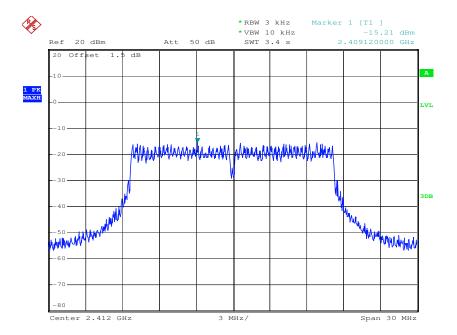
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Test mode: 802.11b Test channel: Highest







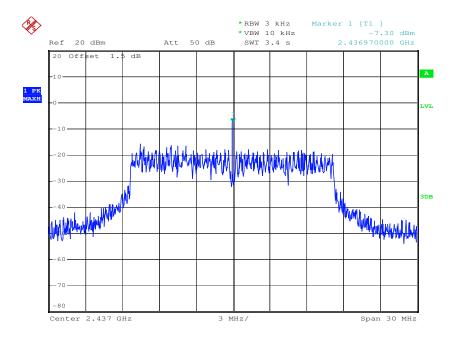
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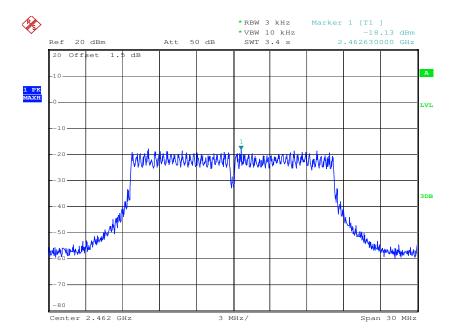
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Test mode: 802.11g Test channel: Middle





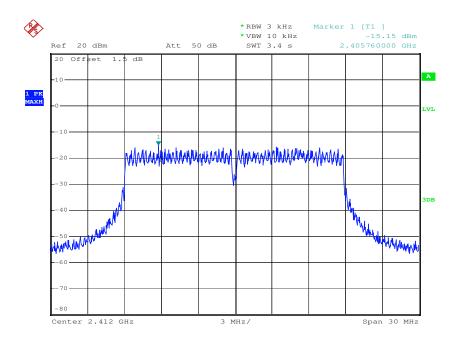




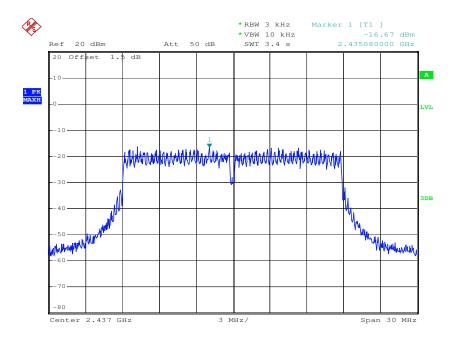
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Test mode: 802.11n(HT20) Test channel: Lowest







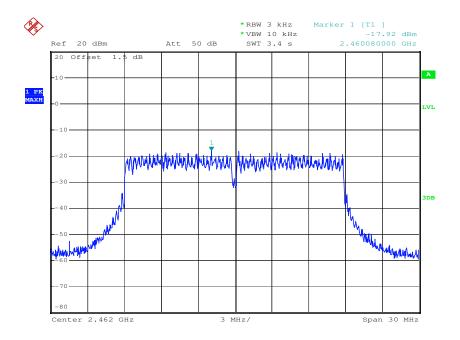
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Test mode: 802.11n(HT20) Test channel: Highest



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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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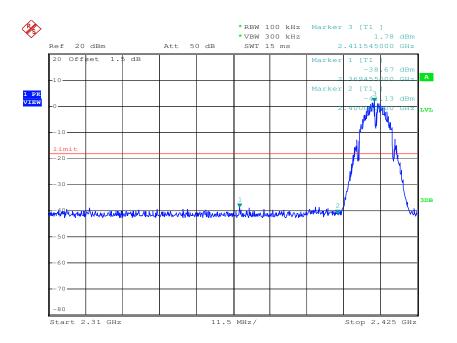


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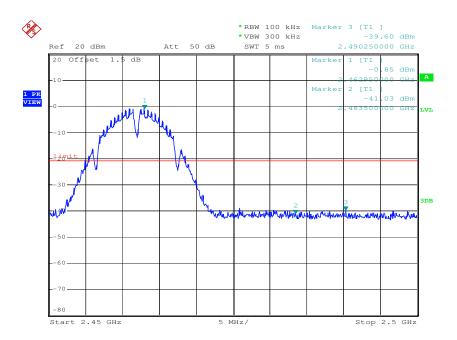
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





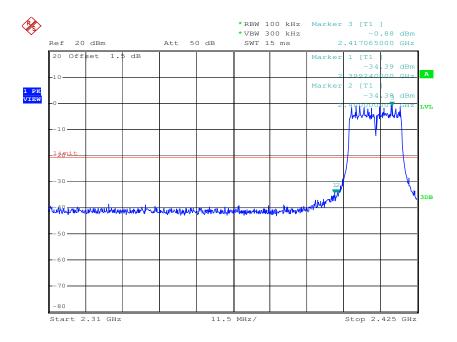




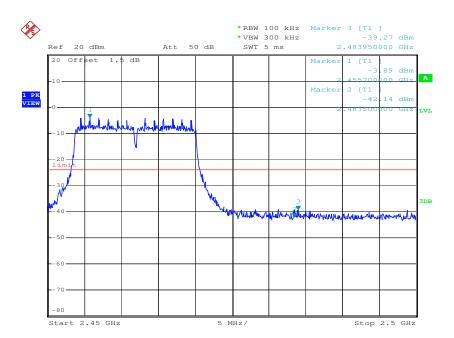
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Test mode: 802.11g Test channel: Lowest







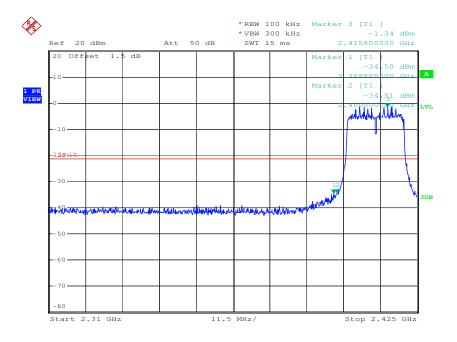
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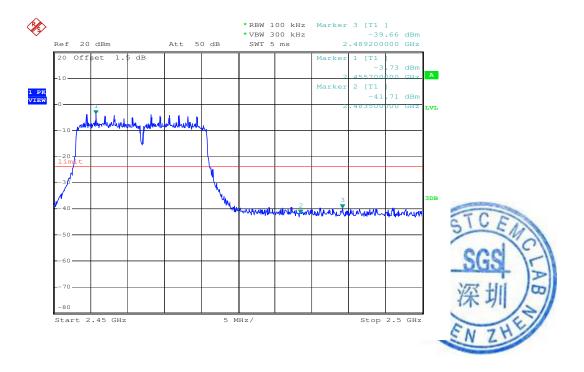
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Test mode: 802.11n(HT20) Test channel: Lowest



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





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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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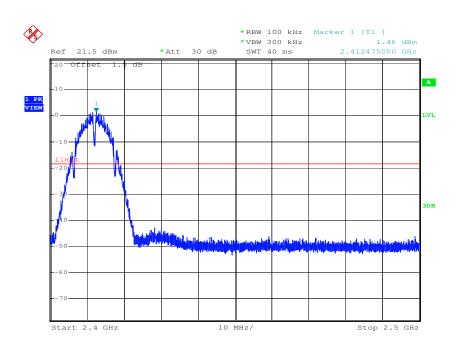


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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

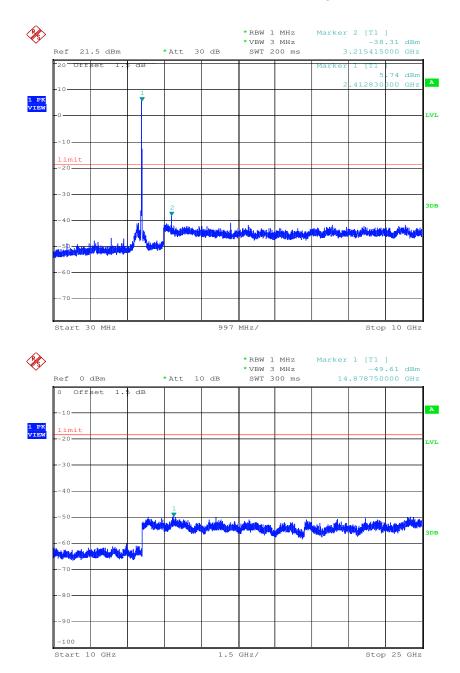


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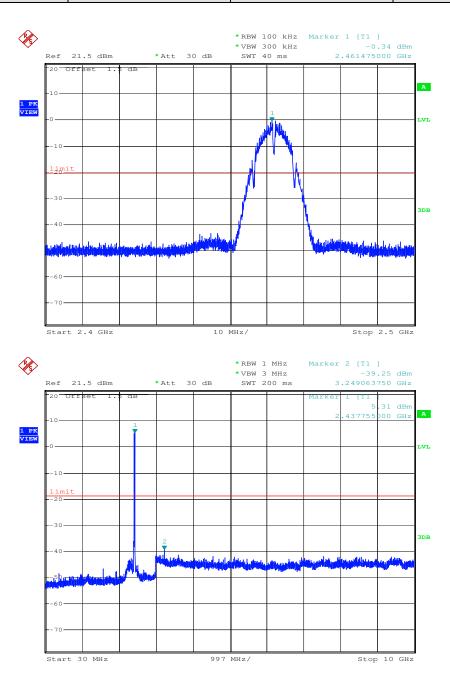
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Test mode: 802.11b Test channel: Middle

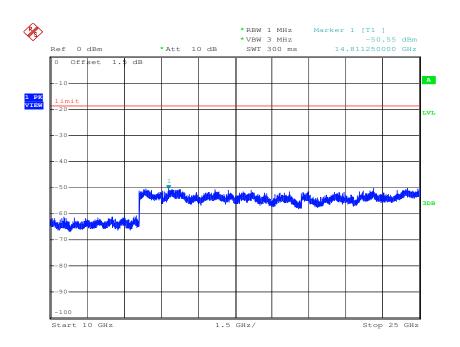


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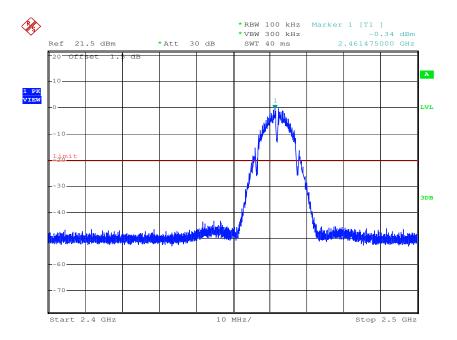


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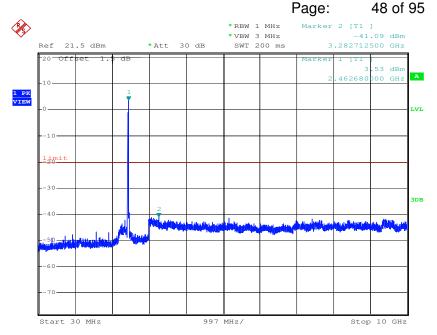


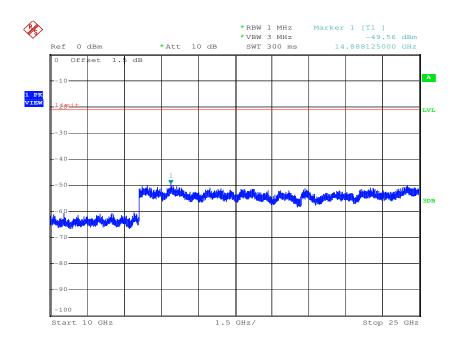






Report No.: SZEM150300140802





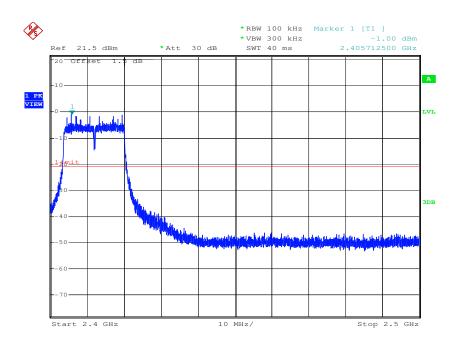
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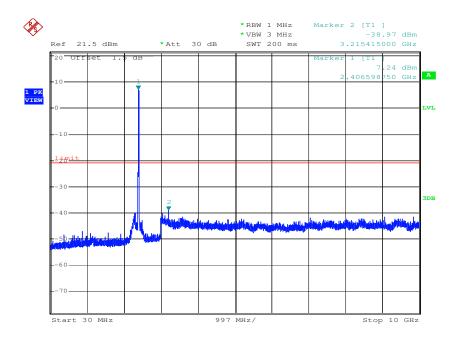


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Test mode: 802.11g Test channel: Lowest





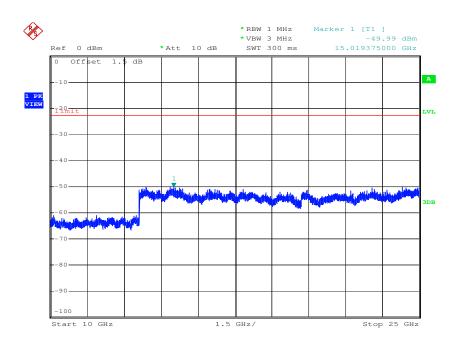
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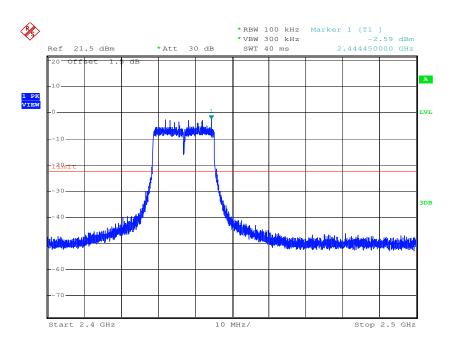


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Test mode: 802.11g Test channel: Middle

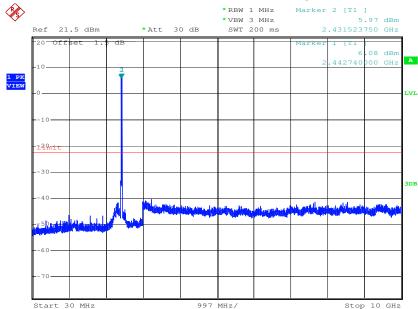




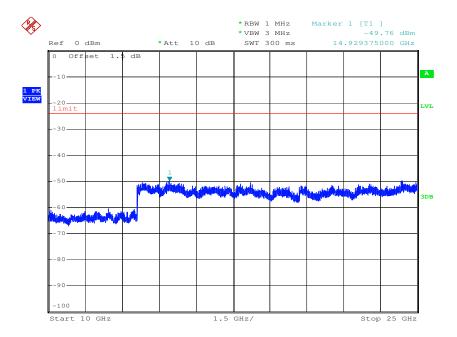


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Test mode:	802.11g	Test channel:	Highest

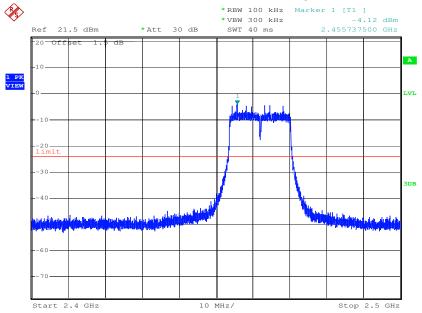


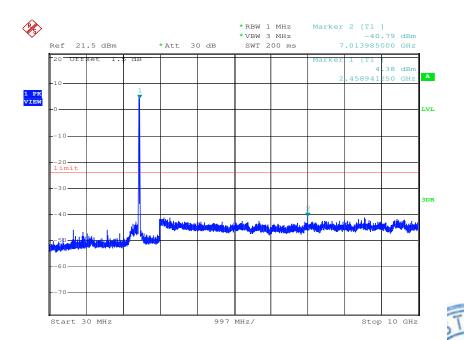
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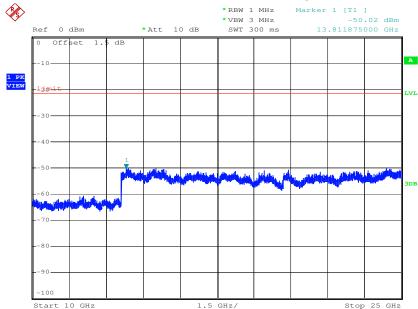




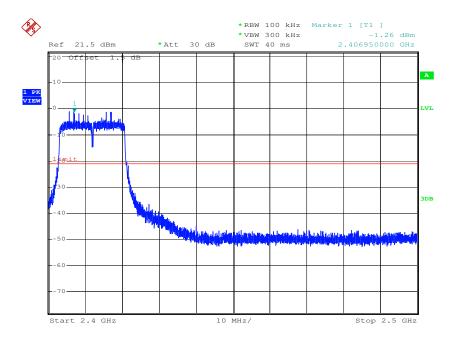


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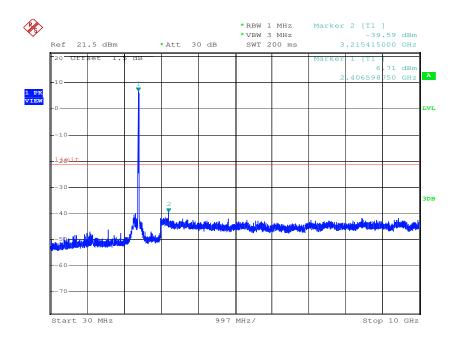
Test mode:	802.11n(HT20)	Test channel:	Lowest
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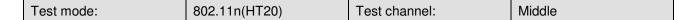


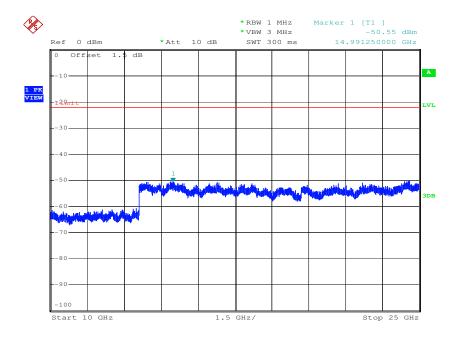


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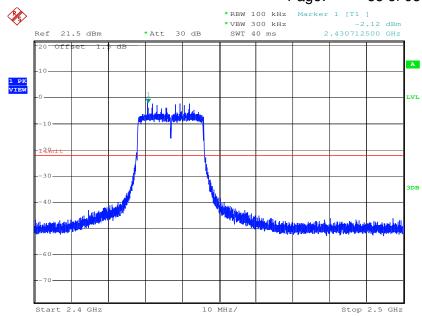


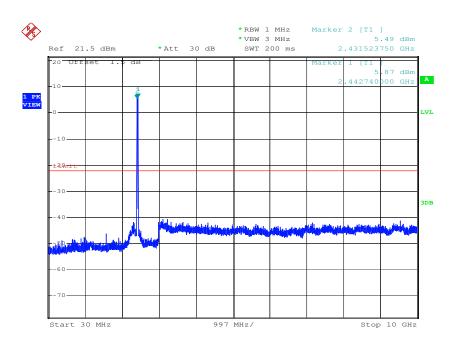




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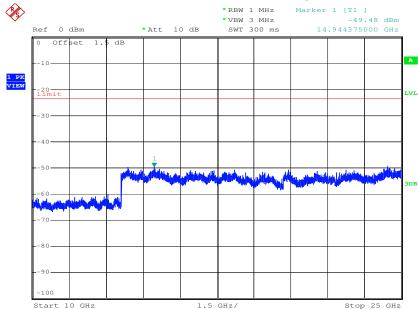


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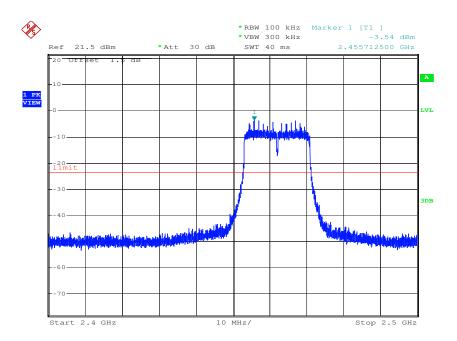


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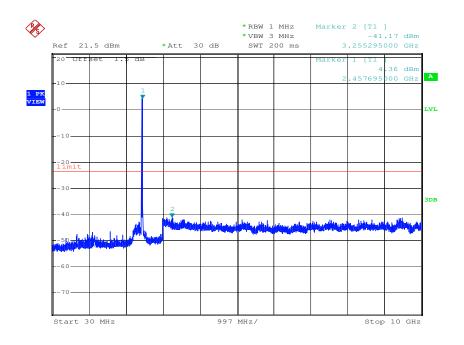
Test mode:	802.11n(HT20)	Test channel:	Highest
	00=:::(:::=0)		geet

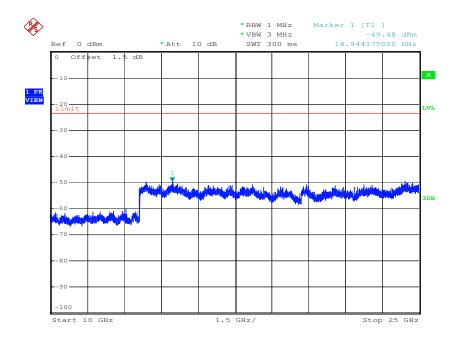




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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013									
Test Site:	Measurement Distance:	3m (Semi-Anechoi	c Chamber)							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above 1GHz	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 emission level radiated by the device.										

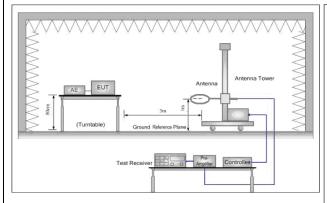
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Test Setup:



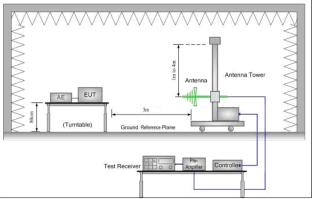


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

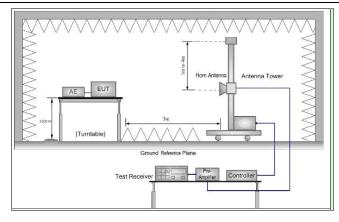


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, 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. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified



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Test Results:	Pass
Instruments Used:	Refer to section 5.10 for details
	Only the worst case is recorded in the report.
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
	of 802.11n(HT20) .
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	Transmitting mode
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	j. Repeat above procedures until all frequencies measured was complete.
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	Bandwidth with Maximum Hold Mode.

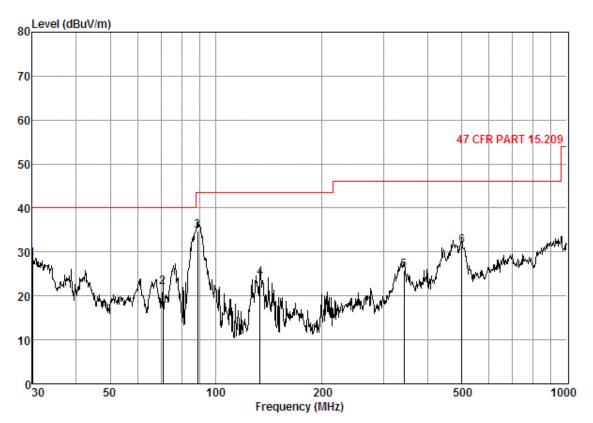


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6.8.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15.209 3m 3142C VERTICAL

Job No. : 1408CR Mode : TX mode

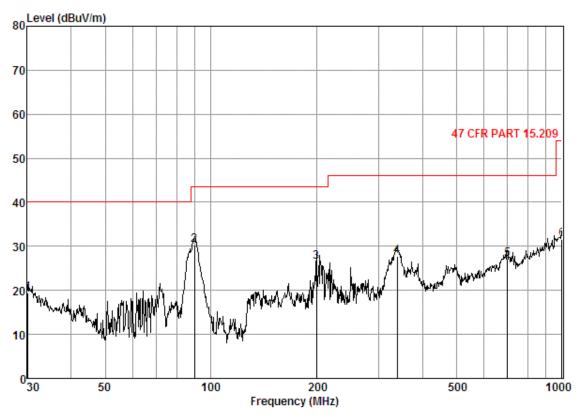
	Freq			Preamp Factor	Read Level		Limit Line	Over Limit
-	MHz	d₿	dB/m	dB	dBuV	$\overline{\text{dBuV/m}}$	$\overline{\text{dBuV/m}}$	dB
1 2 3 4 5	30.00 70.58 88.65 133.62 343.18 501.18	0.64 1.15 1.33 1.72 2.99 3.76	18.70 6.95 8.67 8.08 15.31 17.64	25. 58 25. 76 25. 81 25. 20 24. 86 26. 23	34.71 39.73 50.62 39.51 32.36 36.14	28. 47 22. 07 34. 81 24. 11 25. 80 31. 31	40.00 43.50 43.50 46.00	-11.53 -17.93 -8.69 -19.39 -20.20 -14.69



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Test mode: Transmitting Horizontal



Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL

Job No. : 1408CR Mode : TX mode

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 4 5	30.11 89.90 199.99 339.59 699.30	2.17 2.96		25. 58 24. 91 24. 95 24. 63 26. 13	39.11 34.23	30. 24 26. 53 27. 77		-13.26 -16.97 -18.23
R	1000 00	5 69	24 10	26 11	22 00	31 62	54 00	-22 32





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6.8.2 Transmitter emission above 1GHz

Test mode: 8		2.11b	Test ch	annel:	Lowest Remark:		:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3855.338	6.77	33.25	38.89	44.73	45.86	74	-28.14	Vertical
4824.000	6.46	34.72	39.24	45.95	47.89	74	-26.11	Vertical
6220.550	8.03	36.05	39.16	47.03	51.95	74	-22.05	Vertical
7236.000	8.96	35.60	39.06	45.95	51.45	74	-22.55	Vertical
9648.000	9.97	37.45	37.91	43.11	52.62	74	-21.38	Vertical
11708.900	10.48	38.41	38.57	43.50	53.82	74	-20.18	Vertical
3773.328	6.81	33.13	38.86	46.07	47.15	74	-26.85	Horizontal
4824.000	6.46	34.72	39.24	47.05	48.99	74	-25.01	Horizontal
6310.358	8.01	35.94	39.15	46.77	51.57	74	-22.43	Horizontal
7236.000	8.96	35.60	39.06	46.51	52.01	74	-21.99	Horizontal
9648.000	9.97	37.45	37.91	43.33	52.84	74	-21.16	Horizontal
12578.890	11.03	39.25	39.19	41.90	52.99	74	-21.01	Horizontal

Test mode:	802	.11b	Test ch	annel:	Middle Remark:		:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3996.000	6.69	33.49	38.95	45.81	47.04	74	-26.96	Vertical
4874.000	6.57	34.77	39.26	47.10	49.18	74	-24.82	Vertical
6265.293	8.02	36.00	39.16	47.02	51.88	74	-22.12	Vertical
7311.000	9.06	35.52	39.06	46.25	51.77	74	-22.23	Vertical
9748.000	9.91	37.76	37.85	42.18	52.00	74	-22.00	Vertical
12179.670	10.88	38.93	38.85	42.06	53.02	74	-20.98	Vertical
3910.999	6.74	33.35	38.92	45.07	46.24	74	-27.76	Horizontal
4874.000	6.57	34.77	39.26	46.09	48.17	74	-25.83	Horizontal
6198.299	8.04	36.08	39.16	46.48	51.44	74	-22.56	Horizontal
7311.000	9.06	35.52	39.06	46.00	51.52	74	-22.48	Horizontal
9748.000	9.91	37.76	37.85	41.98	51.80	74	-22.20	Horizontal
12578.890	11.03	39.25	39.19	42.00	53.09	74	-20.91	Horizontal

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Test mode:	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)	Polarization
3897.008	6.74	33.32	38.91	45.88	47.03	74	-26.97	Vertical
4924.000	6.68	34.82	39.28	46.30	48.52	74	-25.48	Vertical
6242.882	8.03	36.03	39.16	46.95	51.85	74	-22.15	Vertical
7386.000	9.16	35.44	39.05	46.13	51.68	74	-22.32	Vertical
9848.000	9.85	38.06	37.79	41.84	51.96	74	-22.04	Vertical
12444.380	11.28	39.21	39.07	41.88	53.30	74	-20.70	Vertical
4010.345	6.67	33.53	38.95	45.72	46.97	74	-27.03	Horizontal
4924.000	6.68	34.82	39.28	46.83	49.05	74	-24.95	Horizontal
6023.128	8.07	36.27	39.18	46.28	51.44	74	-22.56	Horizontal
7386.000	9.16	35.44	39.05	46.40	51.95	74	-22.05	Horizontal
9848.000	9.85	38.06	37.79	42.65	52.77	74	-21.23	Horizontal
12489.060	11.34	39.22	39.11	42.13	53.58	74	-20.42	Horizontal

Test mode:	802	2.11g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3666.690	6.87	33.05	38.81	45.35	46.46	74	-27.54	Vertical
4824.000	6.46	34.72	39.24	46.50	48.44	74	-25.56	Vertical
5916.169	7.95	36.14	39.19	46.70	51.60	74	-22.40	Vertical
7236.000	8.96	35.60	39.06	46.24	51.74	74	-22.26	Vertical
9648.000	9.97	37.45	37.91	42.06	51.57	74	-22.43	Vertical
12444.380	11.28	39.21	39.07	41.64	53.06	74	-20.94	Vertical
3855.338	6.77	33.25	38.89	45.27	46.40	74	-27.60	Horizontal
4824.000	6.46	34.72	39.24	45.86	47.80	74	-26.20	Horizontal
6132.021	8.05	36.15	39.17	46.75	51.78	74	-22.22	Horizontal
7236.000	8.96	35.60	39.06	45.81	51.31	74	-22.69	Horizontal
9648.000	9.97	37.45	37.91	42.42	51.93	74	-22.07	Horizontal
12399.870	11.21	39.20	39.04	42.14	53.51	74	-20.49	Horizontal

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Test mode:	Test mode: 802.11		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
3897.008	6.74	33.32	38.91	45.46	46.61	74	-27.39	Vertical
4874.000	6.57	34.77	39.26	46.45	48.53	74	-25.47	Vertical
6088.229	8.06	36.20	39.17	46.71	51.80	74	-22.20	Vertical
7311.000	9.06	35.52	39.06	46.13	51.65	74	-22.35	Vertical
9748.000	9.91	37.76	37.85	42.47	52.29	74	-21.71	Vertical
12489.060	11.34	39.22	39.11	41.79	53.24	74	-20.76	Vertical
3910.999	6.74	33.35	38.92	45.10	46.27	74	-27.73	Horizontal
4874.000	6.57	34.77	39.26	46.46	48.54	74	-25.46	Horizontal
6023.128	8.07	36.27	39.18	46.97	52.13	74	-21.87	Horizontal
7311.000	9.06	35.52	39.06	45.83	51.35	74	-22.65	Horizontal
9748.000	9.91	37.76	37.85	42.00	51.82	74	-22.18	Horizontal
12179.670	10.88	38.93	38.85	42.83	53.79	74	-20.21	Horizontal

Test mode:	est mode: 802.11g		Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3814.113	6.79	33.18	38.88	45.51	46.60	74	-27.40	Vertical
4924.000	6.68	34.82	39.28	46.34	48.56	74	-25.44	Vertical
5958.723	8.02	36.22	39.19	46.38	51.43	74	-22.57	Vertical
7386.000	9.16	35.44	39.05	45.97	51.52	74	-22.48	Vertical
9848.000	9.85	38.06	37.79	42.32	52.44	74	-21.56	Vertical
12223.390	10.95	38.98	38.89	42.17	53.21	74	-20.79	Vertical
3910.999	6.74	33.35	38.92	45.90	47.07	74	-26.93	Horizontal
4924.000	6.68	34.82	39.28	46.70	48.92	74	-25.08	Horizontal
6198.299	8.04	36.08	39.16	46.65	51.61	74	-22.39	Horizontal
7386.000	9.16	35.44	39.05	45.47	51.02	74	-22.98	Horizontal
9848.000	9.85	38.06	37.79	42.75	52.87	74	-21.13	Horizontal
12399.870	11.21	39.20	39.04	41.87	53.24	74	-20.76	Horizontal

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Test mode:	Test mode: 802.11n(.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cab Los (dE	SS	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3800.469	6.8	0	33.15	38.87	46.08	47.16	74	-26.84	Vertical
4824.000	6.4	6	34.72	39.24	46.58	48.52	74	-25.48	Vertical
6088.229	8.0	6	36.20	39.17	46.89	51.98	74	-22.02	Vertical
7236.000	8.9	6	35.60	39.06	46.54	52.04	74	-21.96	Vertical
9648.000	9.9	7	37.45	37.91	42.33	51.84	74	-22.16	Vertical
12223.390	10.9	95	38.98	38.89	42.21	53.25	74	-20.75	Vertical
3413.093	7.1	3	32.79	38.70	45.77	46.99	74	-27.01	Horizontal
4824.000	6.4	6	34.72	39.24	46.58	48.52	74	-25.48	Horizontal
5811.109	7.7	9	35.93	39.20	46.84	51.36	74	-22.64	Horizontal
7236.000	8.9	6	35.60	39.06	46.42	51.92	74	-22.08	Horizontal
9648.000	9.9	7	37.45	37.91	42.49	52.00	74	-22.00	Horizontal
12179.670	10.8	38	38.93	38.85	42.70	53.66	74	-20.34	Horizontal

Test mode:	st mode: 802.11n(HT20)		Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3614.506	6.90	33.01	38.79	45.32	46.44	74	-27.56	Vertical
4874.000	6.57	34.77	39.26	46.52	48.60	74	-25.40	Vertical
5937.408	7.98	36.18	39.19	47.55	52.52	74	-21.48	Vertical
7311.000	9.06	35.52	39.06	46.63	52.15	74	-21.85	Vertical
9748.000	9.91	37.76	37.85	42.73	52.55	74	-21.45	Vertical
12444.380	11.28	39.21	39.07	42.47	53.89	74	-20.11	Vertical
3437.643	7.09	32.82	38.71	45.34	46.54	74	-27.46	Horizontal
4874.000	6.57	34.77	39.26	46.50	48.58	74	-25.42	Horizontal
6333.012	8.01	35.91	39.15	46.71	51.48	74	-22.52	Horizontal
7311.000	9.06	35.52	39.06	46.16	51.68	74	-22.32	Horizontal
9748.000	9.91	37.76	37.85	42.44	52.26	74	-21.74	Horizontal
12489.060	11.34	39.22	39.11	41.65	53.10	74	-20.90	Horizontal

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Test mode:	80)2.11n(HT20)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3910.999	6.74	33.35	38.92	45.60	46.77	74	-27.23	Vertical
4924.000	6.68	34.82	39.28	46.31	48.53	74	-25.47	Vertical
5811.109	7.79	35.93	39.20	47.29	51.81	74	-22.19	Vertical
7386.000	9.16	35.44	39.05	45.68	51.23	74	-22.77	Vertical
9848.000	9.85	38.06	37.79	42.86	52.98	74	-21.02	Vertical
11317.000	10.35	38.14	38.38	43.74	53.85	74	-20.15	Vertical
3786.875	6.80	33.14	38.86	45.10	46.18	74	-27.82	Horizontal
4924.000	6.68	34.82	39.28	47.02	49.24	74	-24.76	Horizontal
6176.127	8.04	36.11	39.17	46.33	51.31	74	-22.69	Horizontal
7386.000	9.16	35.44	39.05	45.86	51.41	74	-22.59	Horizontal
9848.000	9.85	38.06	37.79	42.10	52.22	74	-21.78	Horizontal
12444.380	11.28	39.21	39.07	41.61	53.03	74	-20.97	Horizontal

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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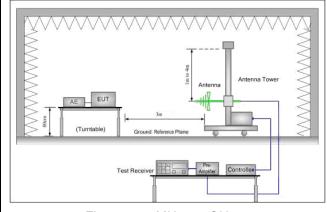


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	r)						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1CUz	54.0	Average Value						
	Above 1GHz	74.0	Peak Value						
Test Setup:									



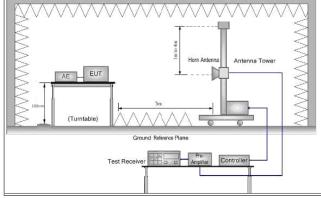


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

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Test Procedure:	a. For below 1GHz, 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. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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.
	c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. 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.
	e. 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.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. 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
	h. Test the EUT in the lowest channel , the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20)
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

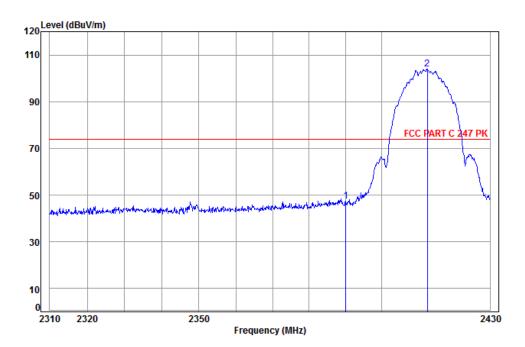


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Test plot as follows:

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



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2412 B Band edge

Ant Preamp Read Limit Cable Over Freq Loss Factor Factor Level Line Limit Level MHz dBuV dBuV/m dBuV/m dB dB/m dB 1 pk 2390.00 4.90 32.35 38.46 48.60 47.39 74.00 -26.61 4.93 32.41 38.46 105.03 103.91 74.00 29.91 2412.59

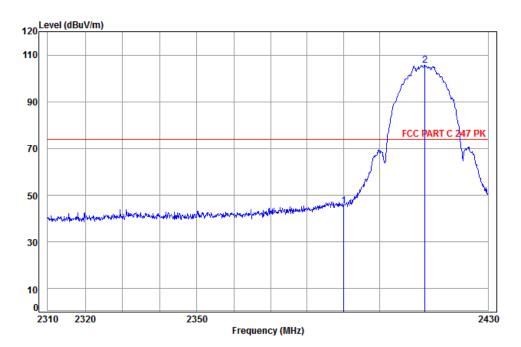
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Worse case mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2412 B Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m 2390.00 4.90 32.35 38.46 46.73 45.52 74.00 -28.48 4.93 32.41 38.46 106.82 105.70 74.00 31.70 2412.47

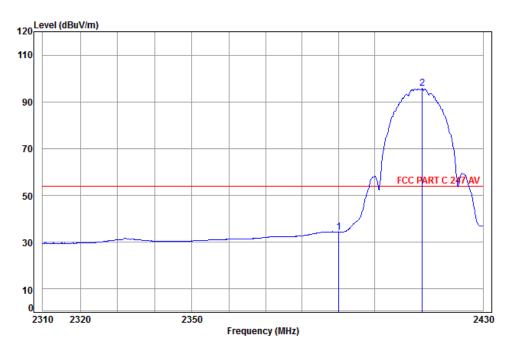
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Worse case mode: 802.11b Test channel: Lowest Remark: Average Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2412 B Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Limit Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 35.66 34.45 54.00 -19.55 4.93 32.41 38.46 96.79 95.67 54.00 41.67 2413.08

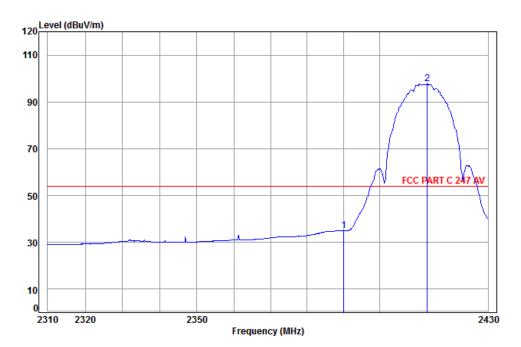




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Worse case mode: 802.11b Test channel: Lowest Remark: Average Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2412 B Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 36.18 34.97 54.00 -19.03 4.93 32.41 38.46 98.99 97.87 54.00 43.87 2413.08

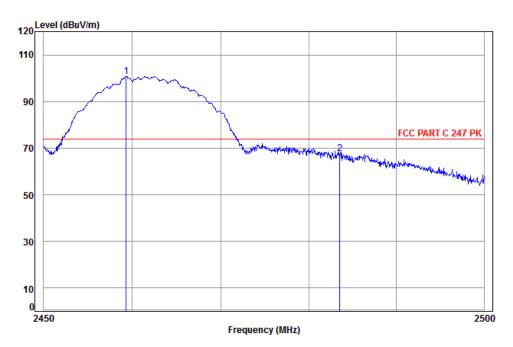
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Report No.: SZEM150300140802

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



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2462 B Band edge

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 5.00 32.43 38.46 101.90 100.87 74.00 2459.27 5.03 32.44 38.47 68.82 67.82 74.00

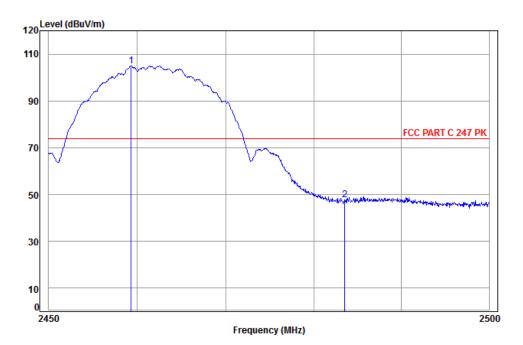
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Worse case mode: 802.11b Test channel: Highest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2462 B Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 5.00 32.43 38.46 106.14 105.11 74.00 31.11 2459.27 5.03 32.44 38.47 48.77 47.77 74.00 -26.23 2483.50

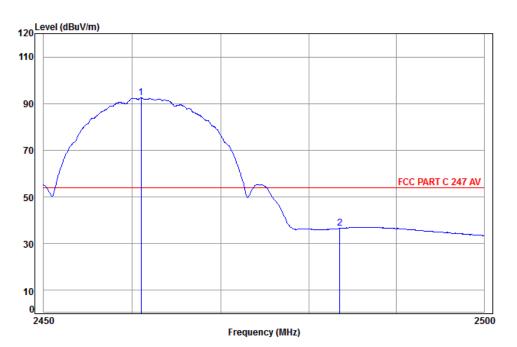
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Worse case mode: 802.11b Test channel: Highest Remark: Average Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2462 B Band edge

Ant Preamp Read Over Cable limit Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 2460.96 5.00 32.43 38.46 93.48 92.45 54.00 38.45 5.03 32.44 38.47 37.52 36.52 54.00 -17.48 2483.50

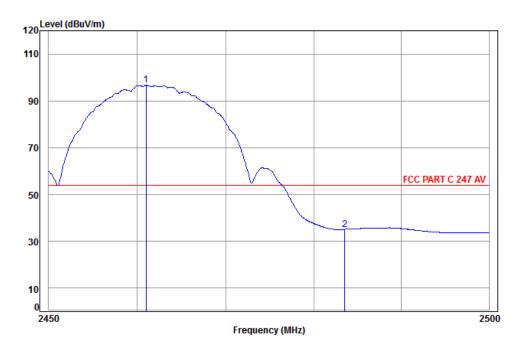
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Worse case mode: 802.11b Test channel: Highest Remark: Average Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2462 B Band edge

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_	MHz	dВ	dR/m	dB	dRuV	dBuV/m	dRuV/m	dR
	11112	ub	ub/iii	ub	abav	ubuv/iii	ubuv/III	ub
1 pp	2460.96	5.00	32.43	38.46	97.81	96.78	54.00	42./8
2	2483.50	5.03	32.44	38.47	36.10	35.10	54.00	-18.90

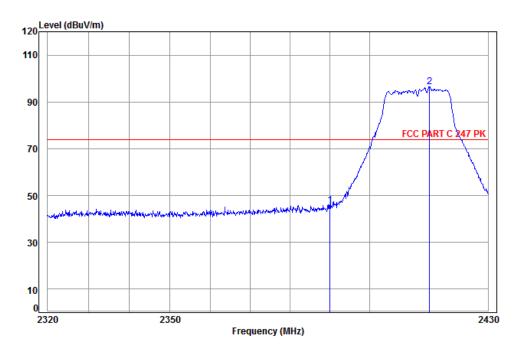
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2412 G Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 46.85 45.64 74.00 -28.36 4.94 32.42 38.46 97.62 96.52 74.00 22.52 2415.07

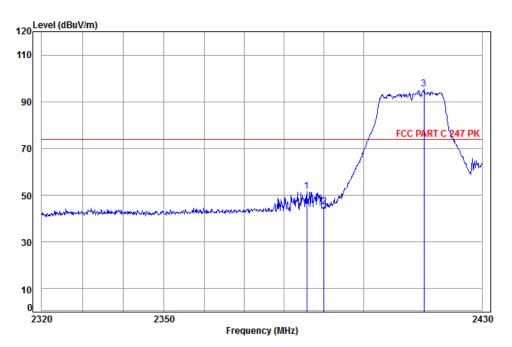
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Worse case mode: 802.11g Test channel: Lowest Remark: Peak Vertical



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2412 G Band edge

Freq							
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
2385.61	4.89	32.32	38.46	52.78	51.53	74.00	-22.47
2390.00	4.90	32.35	38.46	46.19	44.98	74.00	-29.02
2415.19	4.94	32.42	38.46	96.52	95.42	74.00	21.42
	MHz 2385.61 2390.00	Freq Loss MHz dB 2385.61 4.89 2390.00 4.90	Freq Loss Factor MHz dB dB/m 2385.61 4.89 32.32 2390.00 4.90 32.35	Freq Loss Factor Factor MHz dB dB/m dB 2385.61 4.89 32.32 38.46 2390.00 4.90 32.35 38.46	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2385.61 4.89 32.32 38.46 52.78 2390.00 4.90 32.35 38.46 46.19	Freq Loss Factor Factor Level dB work Level dB wor	Treq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2385.61 4.89 32.32 38.46 52.78 51.53 74.00 2390.00 4.90 32.35 38.46 46.19 44.98 74.00 2415.19 4.94 32.42 38.46 96.52 95.42 74.00

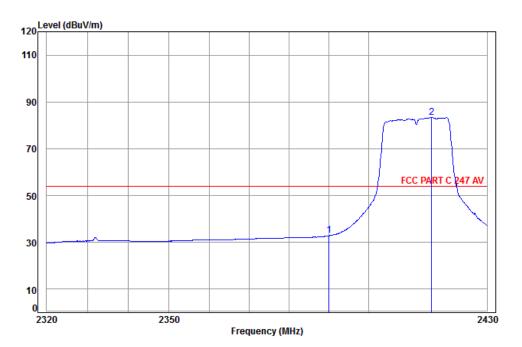
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Worse case mode: 802.11g Test channel: Lowest Remark: Average Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2412 G Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 34.16 32.95 54.00 -21.05 4.94 32.42 38.46 84.43 83.33 54.00 29.33 2415.86

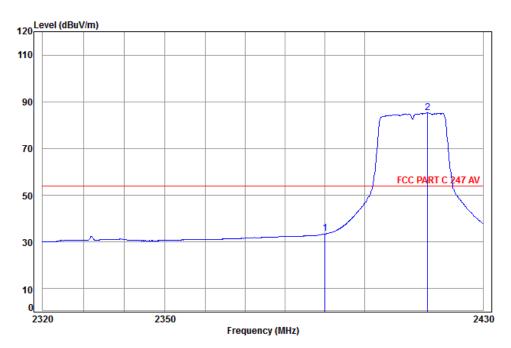
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Worse case mode: 802.11g Test channel: Lowest Remark: Average Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2412 G Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m 2390.00 4.90 32.35 38.46 34.73 33.52 54.00 -20.48 2415.86 4.94 32.42 38.46 86.32 85.22 54.00 31.22



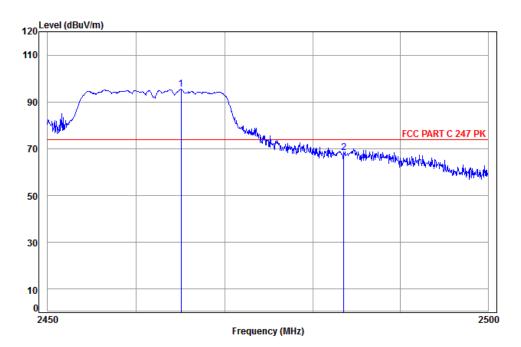
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2462 G Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level line limit Level MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 5.00 38.46 96.50 95.47 74.00 2465.04 32.43 2483.50 5.03 32.44 38.47 69.47 68.47 74.00

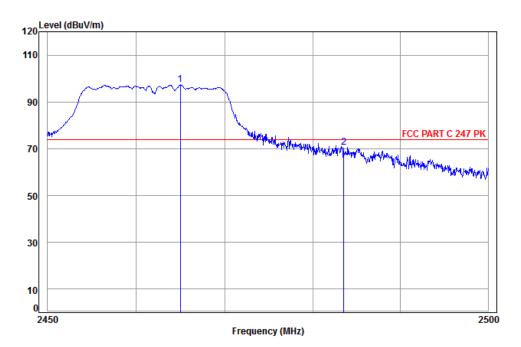
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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2462 G Band edge

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 5.00 38.46 98.33 97.30 74.00 2464.94 32.43 2483.50 5.03 32.44 38.47 71.60 70.60 74.00

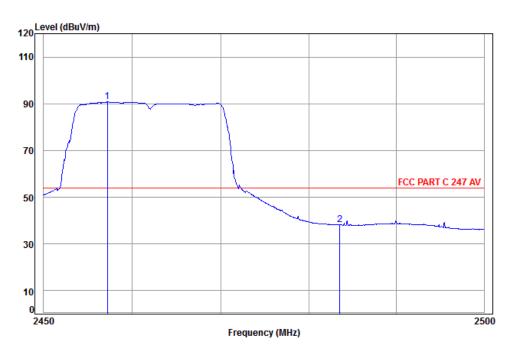
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Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2462 G Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Level Level Limit MHz dBuV dBuV/m dBuV/m dB dB/m dB 2457.19 4.99 32.43 38.46 91.85 90.81 54.00 36.81 2483.50 5.03 32.44 38.47 39.23 38.23 54.00 -15.77

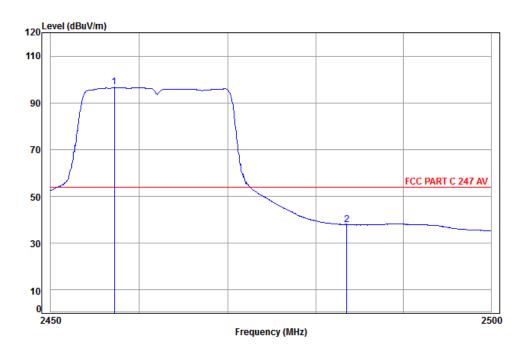
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Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2462 N20 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Limit Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 2457.19 4.99 32.43 38.46 97.67 96.63 54.00 42.63 32.44 38.47 39.08 38.08 54.00 -15.92 2483.50 5.03

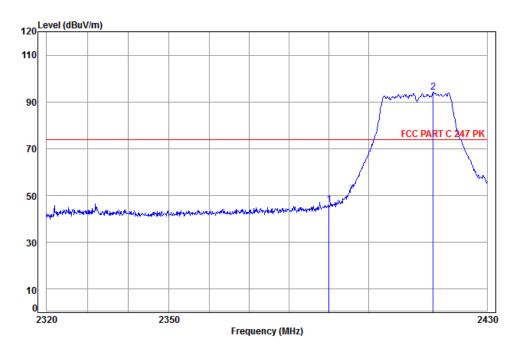
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2412 N20 Band edge

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level line limit MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 47.17 45.96 74.00 -28.04 4.94 32.42 38.46 95.33 94.23 74.00 20.23 2416.31

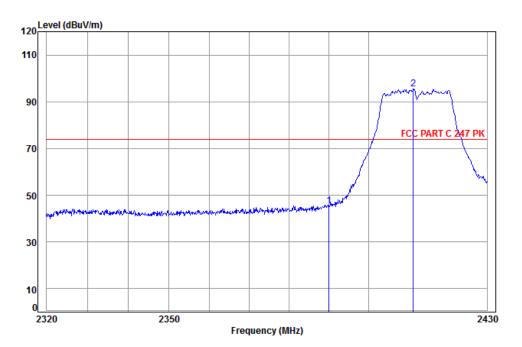
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2412 N20 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 46.66 45.45 74.00 -28.55 2411.27 4.93 32.41 38.46 96.60 95.48 74.00 21.48

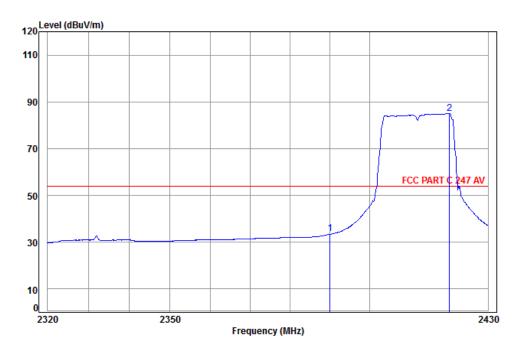
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Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Average | Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2412 N20 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Limit Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 2390.00 4.90 32.35 38.46 34.80 33.59 54.00 -20.41 4.94 32.42 38.46 86.06 84.96 54.00 30.96 2420.23

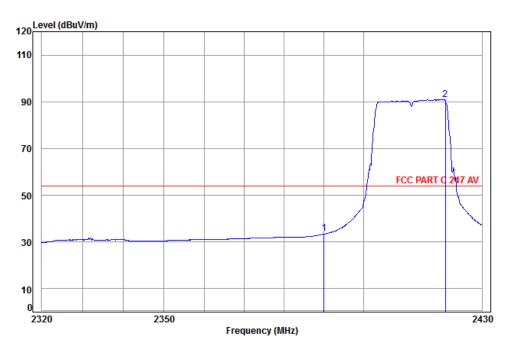
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Worse case mode: 802.11n(HT20) Test channel: Lowest Remark: Average Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2412 N20 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Line Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2390.00 4.90 32.35 38.46 34.89 33.68 54.00 -20.32 2420.63 4.94 32.42 38.46 92.06 90.96 54.00 36.96

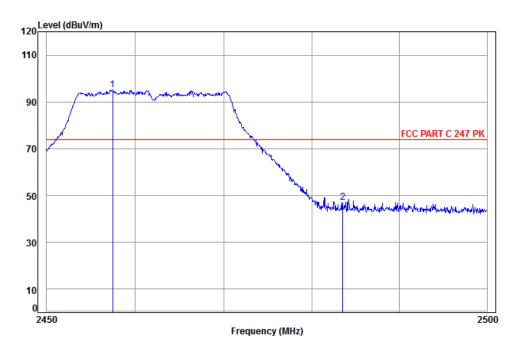
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Vertical



Condition: FCC PART C 247 PK 3m Vertical

Job No: : 1408CR

Mode: : 2462 N20 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2457.44	4.99	32.43	38.46	96.26	95.22	74.00	21.22
2	2483.50	5.03	32.44	38.47	48.10	47.10	74.00	-26.90

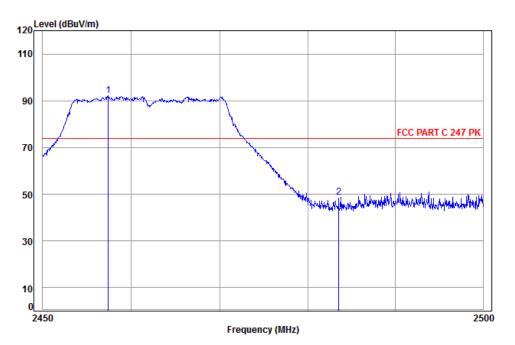
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Worse case mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 1408CR

Mode: : 2462 N20 Band edge

Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB 2457.39 4.99 32.43 38.46 93.19 92.15 74.00 18.15 2483.50 5.03 32.44 38.47 49.85 48.85 74.00 -25.15

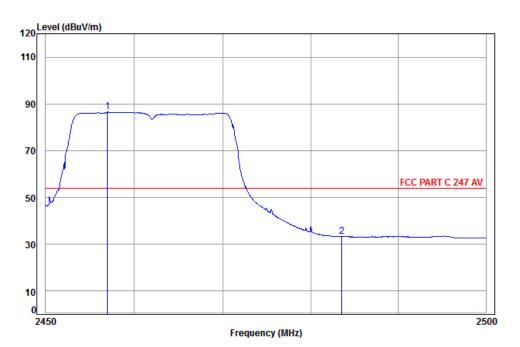
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Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Average | Vertical



Condition: FCC PART C 247 AV 3m Vertical

Job No: : 1408CR

Mode: : 2462 N20 Band edge

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Line Limit Level Level MHz dB dB/m dΒ dBuV dBuV/m dBuV/m 2456.94 4.99 32.43 38.46 87.53 86.49 54.00 32.49 32.44 38.47 34.30 33.30 54.00 -20.70 2483.50 5.03



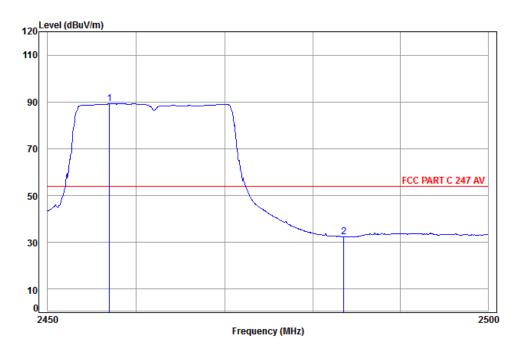
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Worse case mode: | 802.11n(HT20) | Test channel: | Highest | Remark: | Average | Horizontal



Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 1408CR

Mode: : 2462 N20 Band edge

	Frea		Preamp Factor		
_	MHz	 	dB	 	
1 pp	2456.94 2483.50				

Note:

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

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

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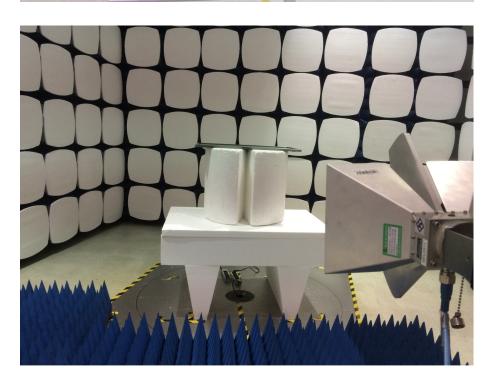
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7 Photographs - EUT Test Setup

Test model No.: Timelink Note 42

7.1 Radiated Spurious Emission





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7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1503001408CR.