

Report No.: SZEM160100033601

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FCC REPORT

Application No: SZEM1601000336CR

Applicant: Darts Connect International Limited

Manufacturer: Darts Connect International Limited

Factory: Loong Run Toy Co., Ltd.

Product Name: Online Dartboard

Model No.(EUT): 7689

Trade Mark: Darts Connect FCC ID: 2AHEF7689

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

Date of Receipt: 2016-01-20

Date of Test: 2016-04-26 to 2016-05-18

Date of Issue: 2016-05-30

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		2016-05-30		Original				

Authorized for issue by:		
	Peter Gene	2016-05-18
Tested By	(Peter Geng) /Project Engineer	Date
	Iris Zhou	2016-05-30
Prepared By	(Iris Zhou) /Clerk	Date
	Eric Fu	2016-05-30
Checked By	(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:	Darts Connect International Limited
Address of Applicant:	Shop 6, G/F, Fulland Court, 254-266 Fa Yuen Street, Mong Kok, Hong Kong
Manufacturer:	Darts Connect International Limited
Address of Manufacturer:	Shop 6, G/F, Fulland Court, 254-266 Fa Yuen Street, Mong Kok, Hong Kong
Factory:	Loong Run Toy Co.,Ltd.
Address of Factory:	Sheng San Ind. District, Heng Li Zheng, Dongguan, Guangdong
	Province, China

5.2 General Description of EUT

Product Name:	Online Dartboard
Model No.:	7689
Trade Mark:	Darts Connect
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
	IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
	IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS (CCK, DQPSK, DBPSK)
	IEEE for 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE for 802.11n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)
	IEEE for 802.11n (HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Sample Type:	Fixed product
Antenna Type:	Integral antenna
Antenna Gain:	2dBi
Power Supply:	DC 6V by 4 x 1.5V "AA" batteries or, USB port DC 5V

Remark: EUT is powered by two mode, batteries and USB port. All tests (only USB port in conducted emissions) were conducted in both mode and found USB port was the worst case, so it is reported only.

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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	l Frequency	Channel	Fre	quency Chai		nel	Frequency
1	24	412MHz	4	2427MHz	7	244	42MHz	10	1	2457MHz
2	24	417MHz	5	2432MHz	8	244	47MHz			2462MHz
3	24	422MHz	6	2437MHz	9	24	2452MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40)					
Channel Frequency				Channel	Frequen	су	Chan	nel		requency
1		2422	ИНz	4	2437MF	·Ιz	z 7			2452MHz
2	2 2427MHz 5 2442MHz									
3		2432	ИНz	6	2447MF	·Ιz				

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):

0: 00±::::(::::0):					
Channel	Frequency				
The Lowest channel	2422MHz				
The Middle channel	2437MHz				
The Highest channel	2452MHz				

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1015 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all
	kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

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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)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber 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-1, 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	SEM001-06	2016-05-13	2017-05-13
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09
3	LISN	ETS- LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
4	8 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T8- 02	EMC0120	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T4- 02	EMC0121	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T2- 02	EMC0122	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09

	RE in Chamber									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)				
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2015-08-01	2016-08-01				
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2016-04-25	2017-04-25				
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2017-01-26				
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-04-25	2017-04-25				
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2016-08-14				



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS- LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS- LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS- LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS- LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	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	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09

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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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.



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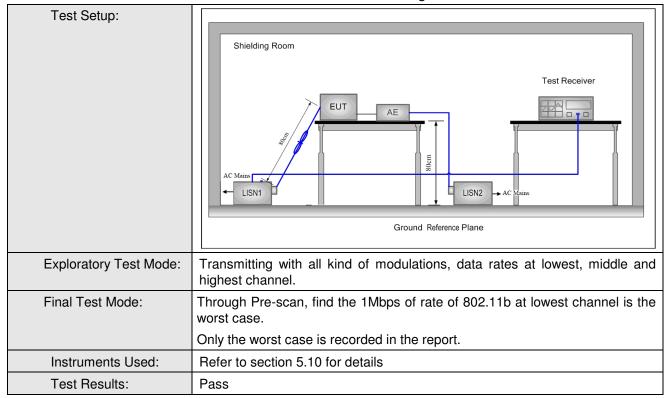
6.2 Conducted Emissions

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	dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test Procedure:	 The mains terminal 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 terminal placed on the horizontal ground reference plane. All placed on the horizontal ground reference plane of the EUT shall be 0.4 meterical ground reference preference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated experience plane and all of the in ANSI C63.10: 2013 on contract. 	o AC power source throetwork) which provides bles of all other units of SN 2, which was bonded the LISN 1 for the unit kneed used to connect mating of the LISN was need upon a non-metallicend for floor-standing are cound reference plane, the a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The fof the LISN 1 and the quipment was at least 0 am emission, the relative terface cables must be	ough a LISN 1 (Line a 50Ω/50μH + 5Ω line the EUT were do to the ground reference plane and the EUT were does not exceeded. The transparent, the EUT erence plane. The red reference plane. The red reference plane are horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of the positions of e changed according	near ence to a ne was ar ne he	



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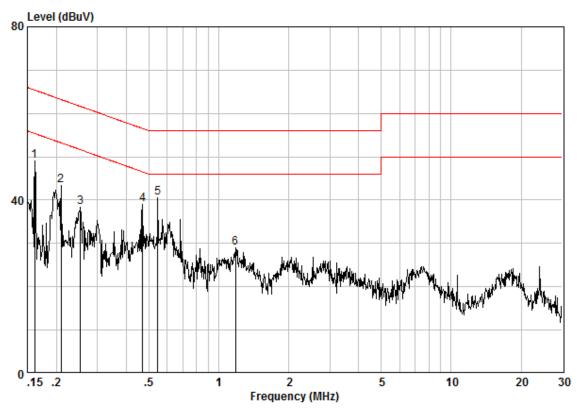
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Measurement Data

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 : CE LINE Job No. : 0336CR Test Mode : a

	Freq		LISN Factor				Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16155	0.02	9.60	39.38	49.00	55.38	-6.39	Peak
2	0.20944	0.02	9.60	33.76	43.37	53.23	-9.85	Peak
3	0.25345	0.02	9.60	28.72	38.34	51.64	-13.31	Peak
4	0.47110	0.01	9.59	29.37	38.98	46.49	-7.52	Peak
5 @	0.54644	0.01	9.60	30.89	40.50	46.00	-5.50	Peak
6	1.178	0.02	9.61	19.40	29.03	46.00	-16.97	Peak

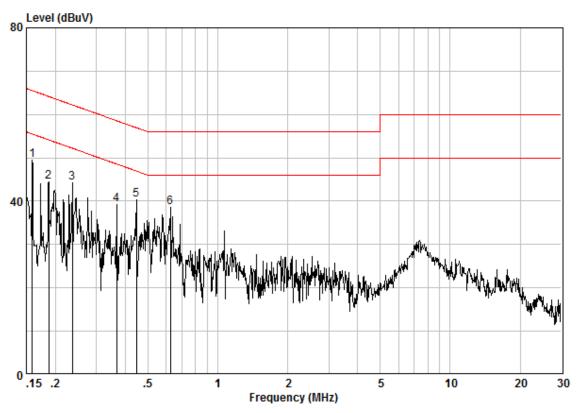
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Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 0336CR Test Mode : a

	Frea		LISN Factor			Limit Line		Remark	
								NCMGI K	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB		
1 @	0.15900	0.02	9.61	39.77	49.40	55.52	-6.11	Peak	
2	0.18738	0.02	9.61	34.81	44.44	54.15	-9.71	Peak	
3	0.23658	0.02	9.61	34.73	44.36	52.22	-7.86	Peak	
4	0.36725	0.01	9.62	29.70	39.33	48.56	-9.24	Peak	
5	0.44679	0.01	9.62	30.59	40.22	46.93	-6.71	Peak	
6	0.62383	0.02	9.63	28.92	38.57	46.00	-7.43	Peak	

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 Section 11.9.1			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark:			
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case			
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)			
Limit:	30dBm			
Test Results:	Pass			

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Pre-scan under all rate at lowest channel 1								
Mode		802	.11b					
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	19.83	19.78	19.68	19.80				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	25.06	25.00	24.86	25.02	25.06	24.97	25.06	25.04
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	25.00	25.00	24.94	25.00	24.84	24.89	25.00	24.85
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	24.68	24.56	24.59	24.68	2463	24.68	24.66	24.68

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

	802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	19.83	30.00	Pass				
Middle	19.85	30.00	Pass				
Highest	19.85	30.00	Pass				
	802.11g mo	de					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	25.06	30.00	Pass				
Middle	24.94	30.00	Pass				
Highest	25.00	30.00	Pass				
	802.11n(HT20)	mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	25.00	30.00	Pass				
Middle	24.92	30.00	Pass				
Highest	24.97	30.00	Pass				
	802.11n(HT40)mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	24.68	30.00	Pass				
Middle	25.56	30.00	Pass				
Highest	25.06	30.00	Pass				



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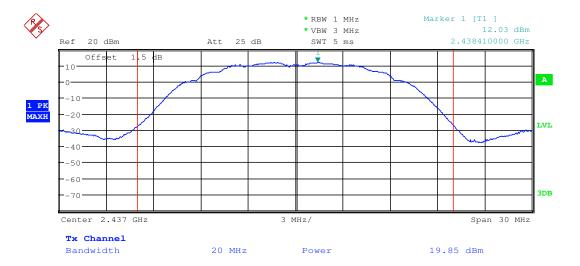
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest







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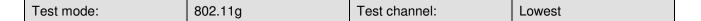


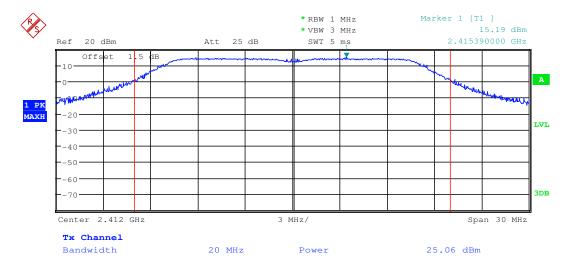
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Test mode: 802.11b Test channel: Highest







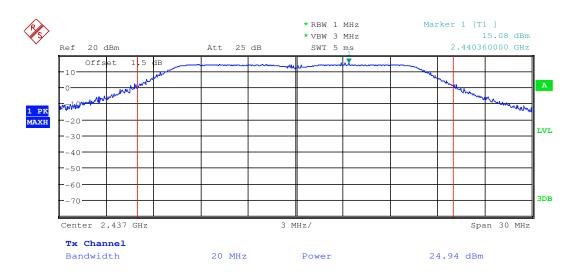
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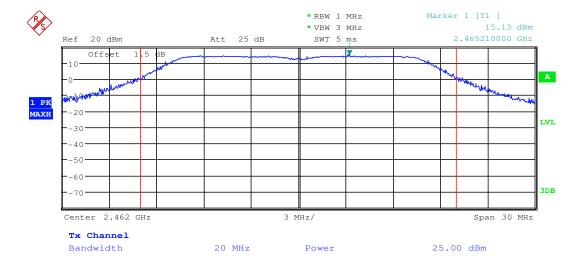
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Test mode: 802.11g Test channel: Middle



est mode: 80	302.11g	Test channel:	Highest
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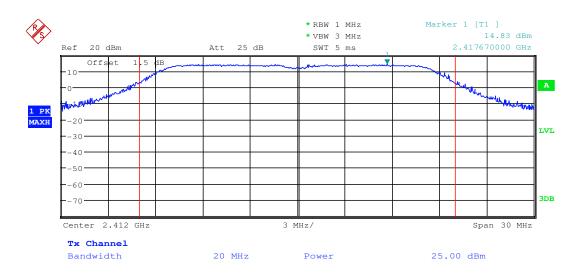
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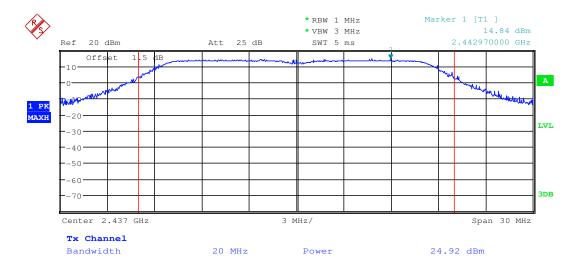
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Test mode: 802.11n(HT20) Test channel: Lowest







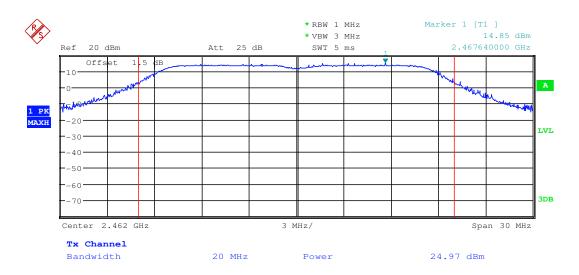
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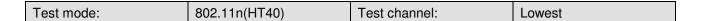


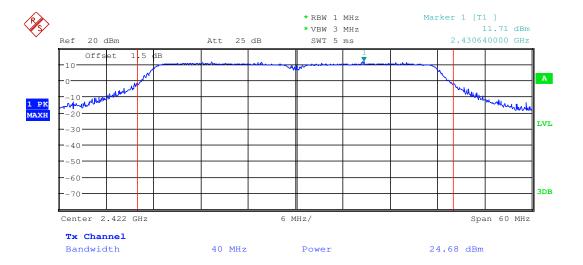
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Test mode: 802.11n(HT20) Test channel: Highest







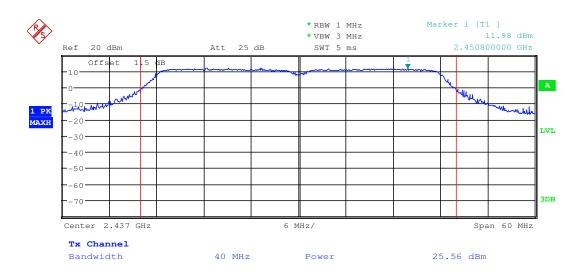
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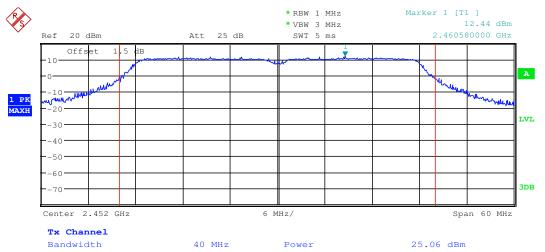
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Test mode: 802.11n(HT40) Test channel: Middle







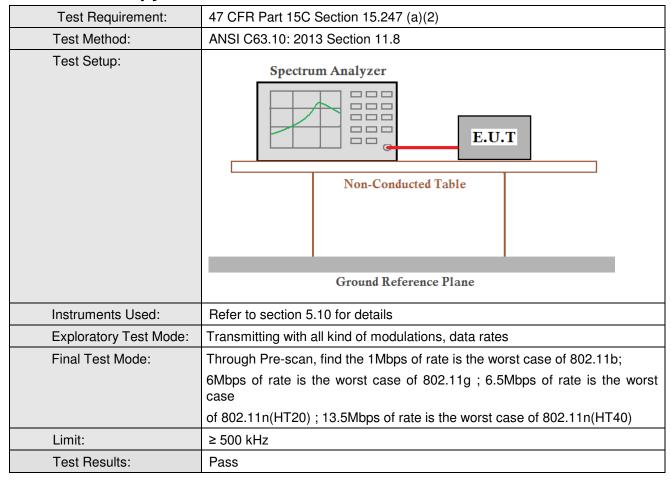
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6.4 6dB Occupy Bandwidth



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Measurement Data

	802.11b mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.140	≥500	Pass
Middle	10.140	≥500	Pass
Highest	10.140	≥500	Pass
	802.11g mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.410	≥500	Pass
Middle	16.410	≥500	Pass
Highest	16.410	≥500	Pass
	802.11n(HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.610	≥500	Pass
Middle	17.640	≥500	Pass
Highest	17.640	≥500	Pass
	802.11n(HT40)mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.480	≥500	Pass
Middle	36.480	≥500	Pass
Highest	36.480	≥500	Pass

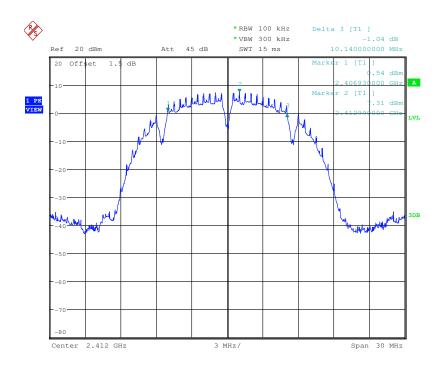


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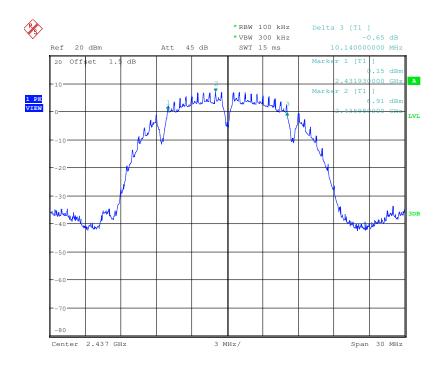
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





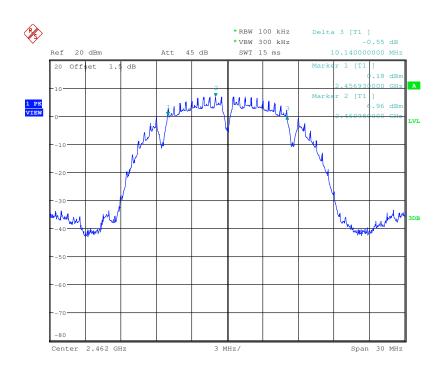




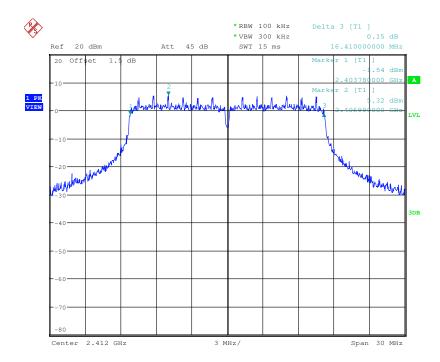
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Test mode: 802.11b Test channel: Highest





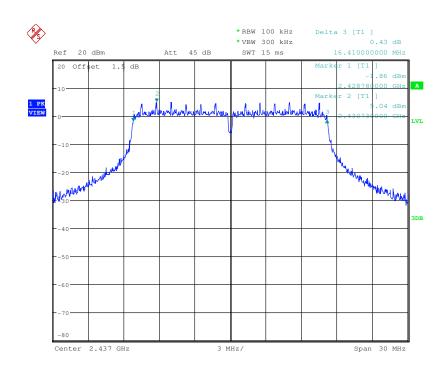




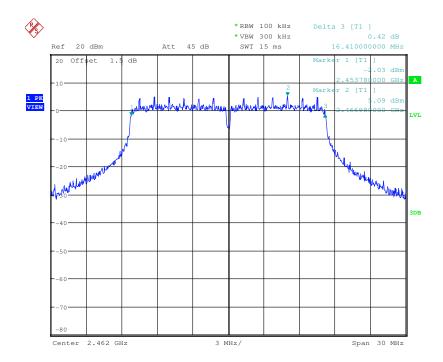
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Test mode: 802.11g Test channel: Middle





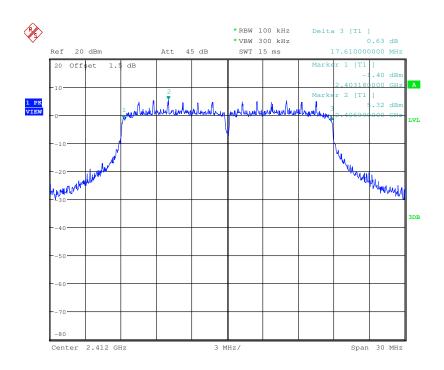




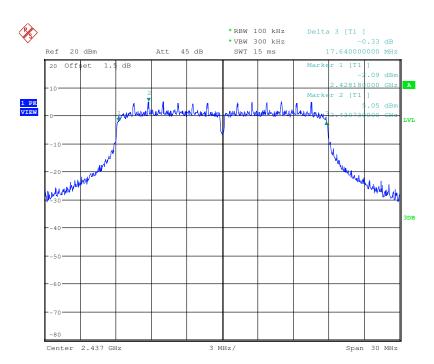
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Test mode: 802.11n(HT20) Test channel: Lowest





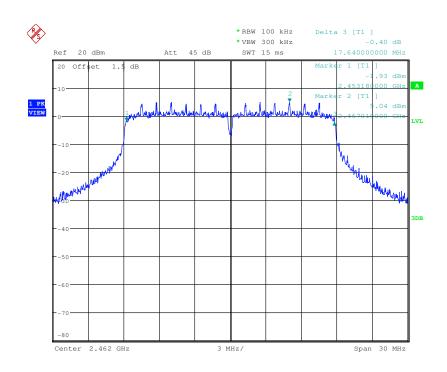




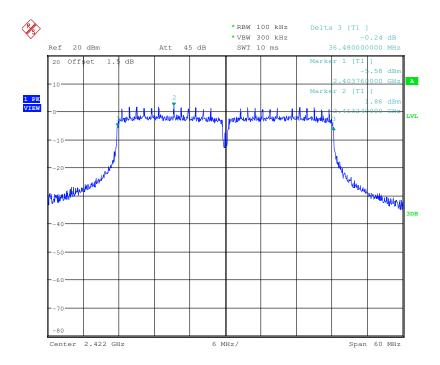
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Test mode: 802.11n(HT20) Test channel: Highest





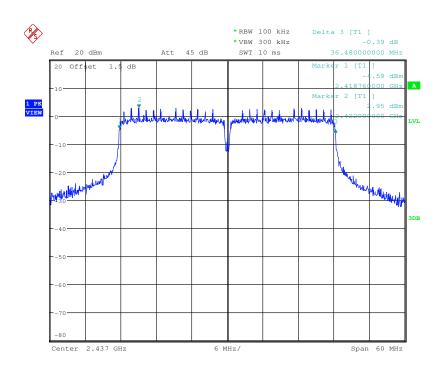




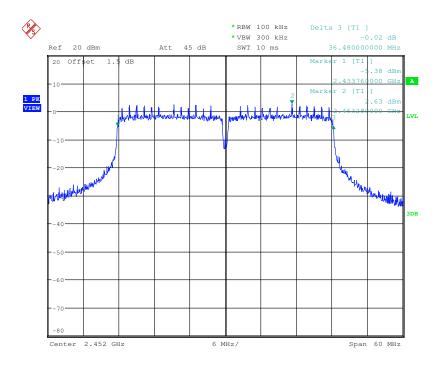
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Test mode: 802.11n(HT40) Test channel: Middle









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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 Section 11.10.2			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Remark:			
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
Test Instruments:	Refer to section 5.10 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;			
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case			
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)			
Limit:	≤8.00dBm/3kHz			
Test Results:	Pass			

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Measurement Data

	802.11b mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-7.03	≤8.00	Pass
Middle	-7.82	≤8.00	Pass
Highest	-7.31	≤8.00	Pass
	802.11g mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-8.47	≤8.00	Pass
Middle	-8.99	≤8.00	Pass
Highest	-7.73	≤8.00	Pass
	802.11n(HT20) mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-9.06	≤8.00	Pass
Middle	-9.64	≤8.00	Pass
Highest	-9.88	≤8.00	Pass
	802.11n(HT40) mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-11.28	≤8.00	Pass
Middle	-10.92	≤8.00	Pass
Highest	-12.10	≤8.00	Pass

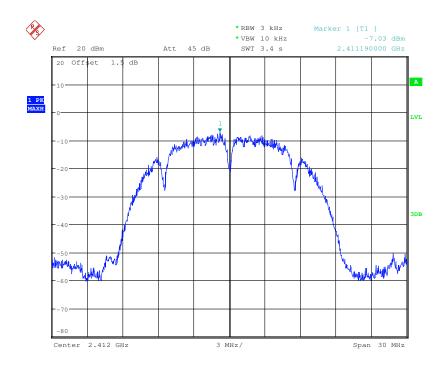


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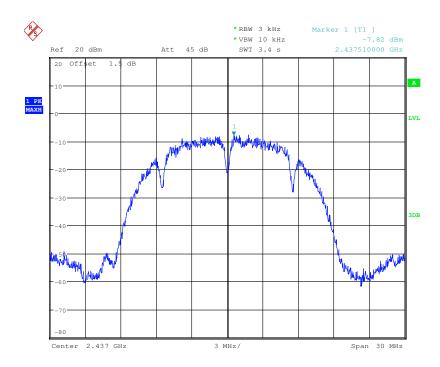
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
	0020	1 001 0114111011	2011001



Test mode:	802.11b	Test channel:	Middle
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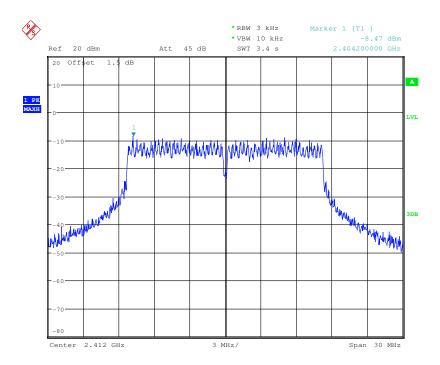
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Test mode: 802.11b Test channel: Highest





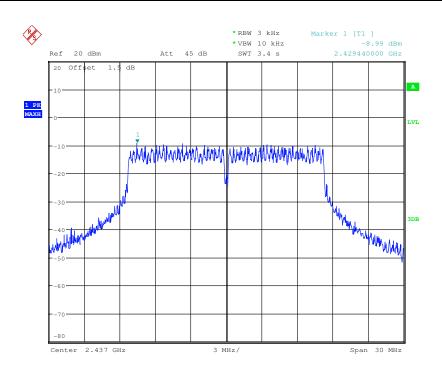


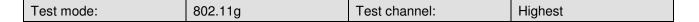


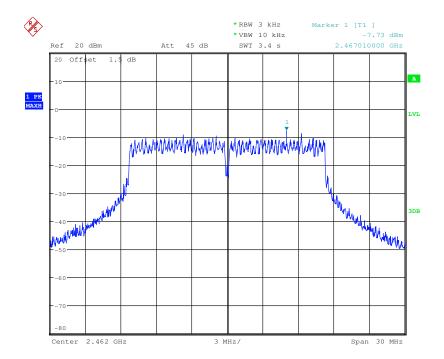
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Test mode: 802.11g Test channel: Middle





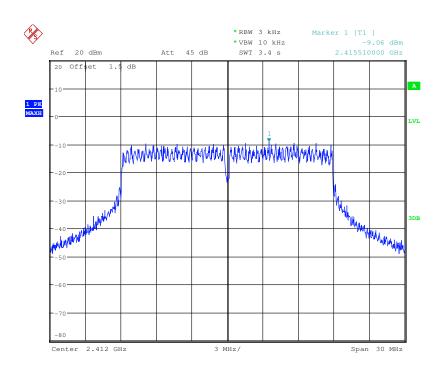


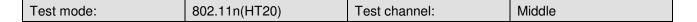


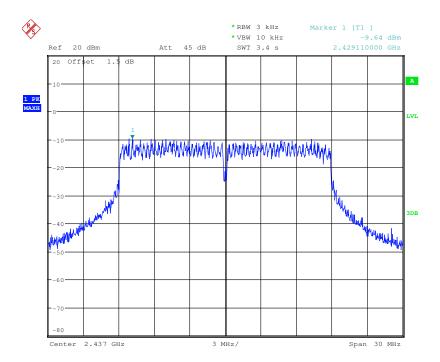
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Test mode: 802.11n(HT20) Test channel: Lowest





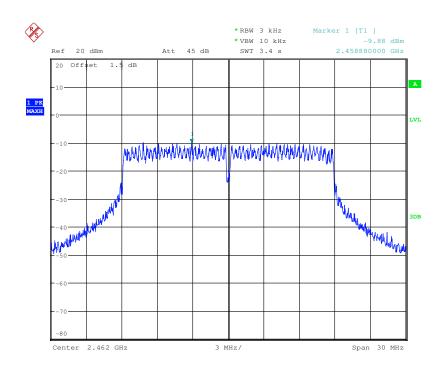


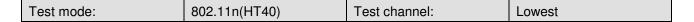


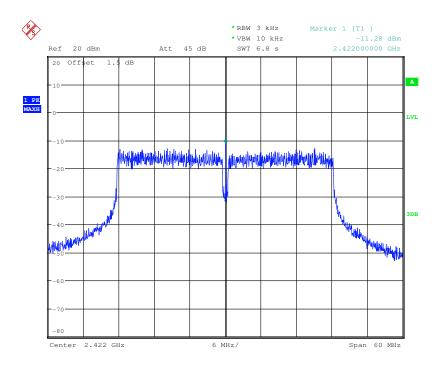
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Test mode: 802.11n(HT20) Test channel: Highest





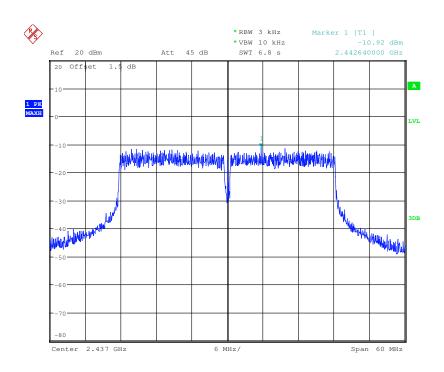


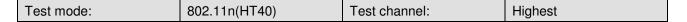


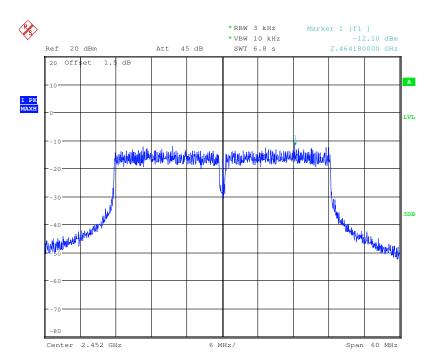
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Test mode: 802.11n(HT40) Test channel: Middle









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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 Section 11.13
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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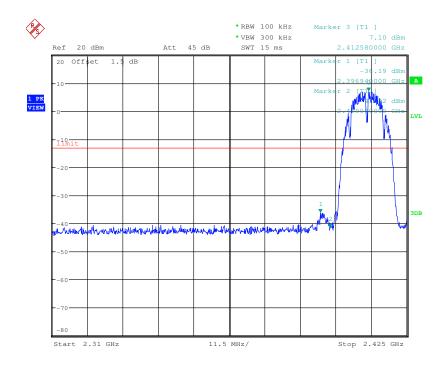


Report No.: SZEM160100033601

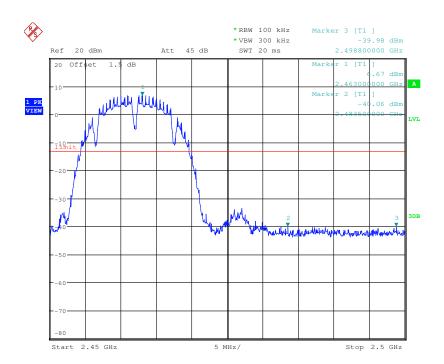
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





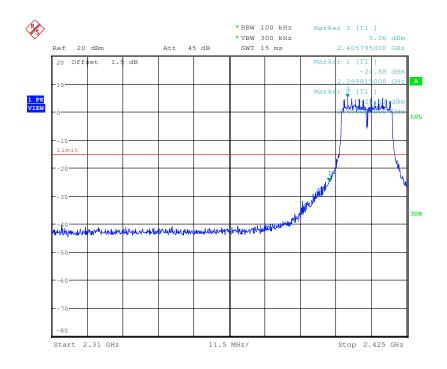




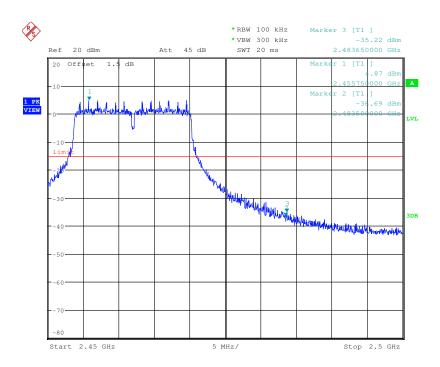
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Test mode: 802.11g Test channel: Lowest





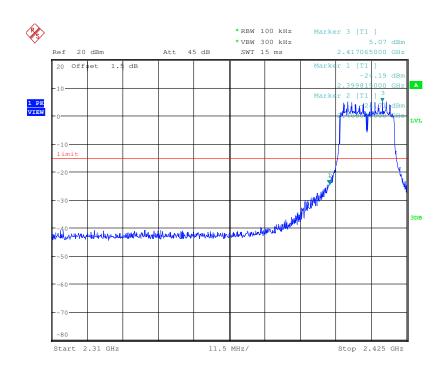




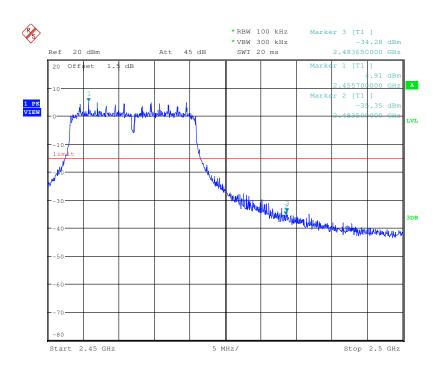
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Test mode: 802.11n(HT20) Test channel: Lowest





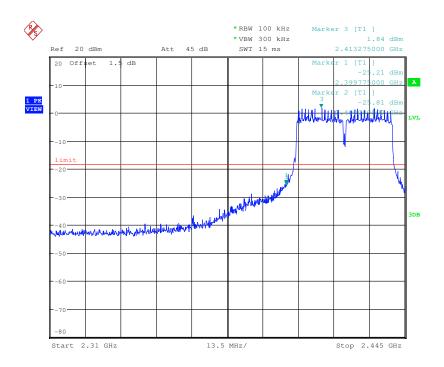




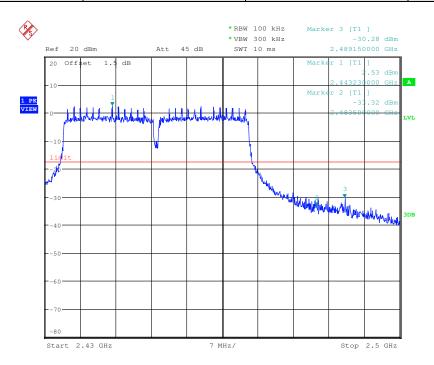
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Test mode: 802.11n(HT40) Test channel: Lowest









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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 Section 11.11
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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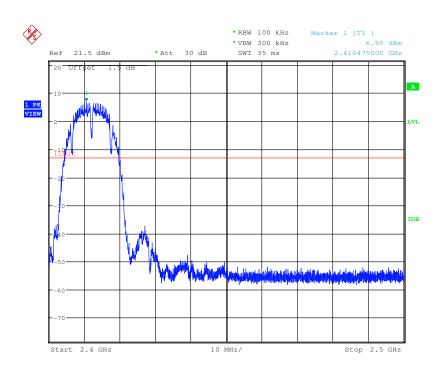


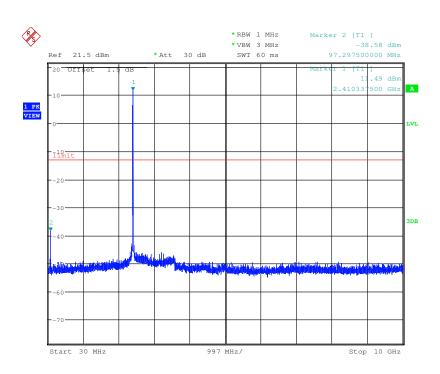
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

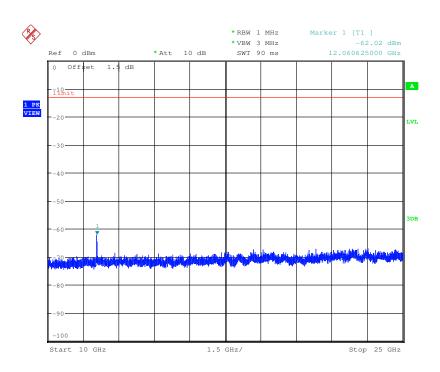




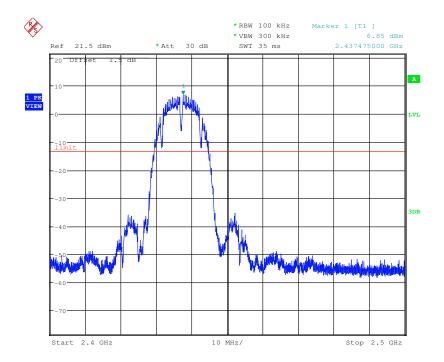


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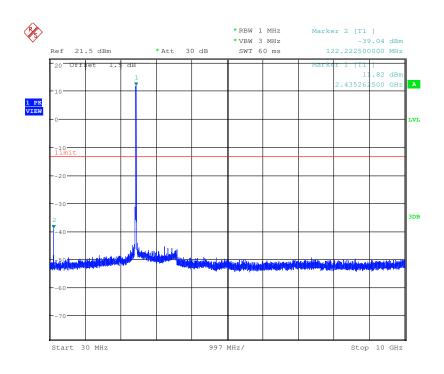


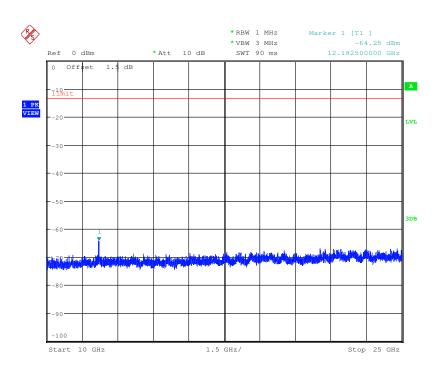




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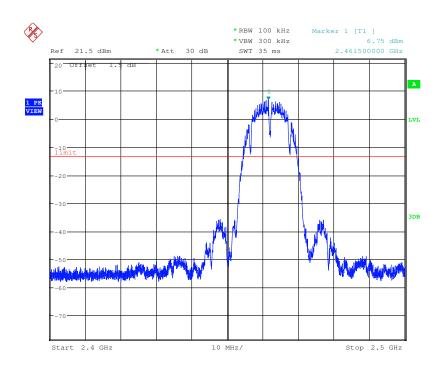
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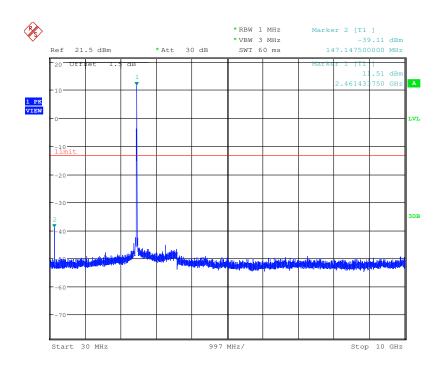


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Test mode: 802.11b Test channel: Highest



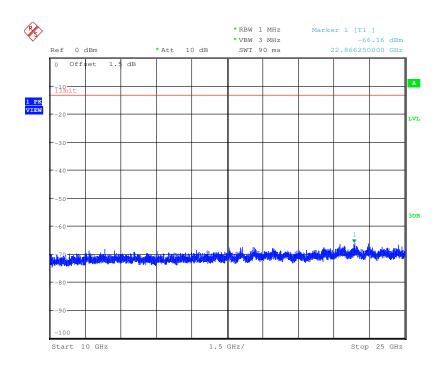


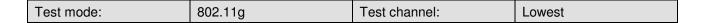
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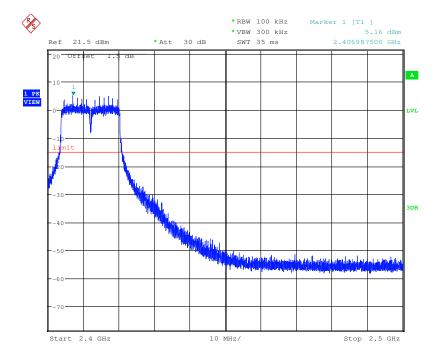


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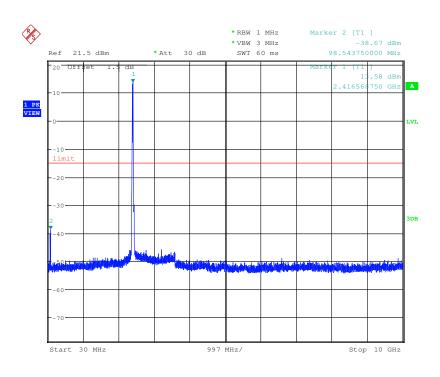


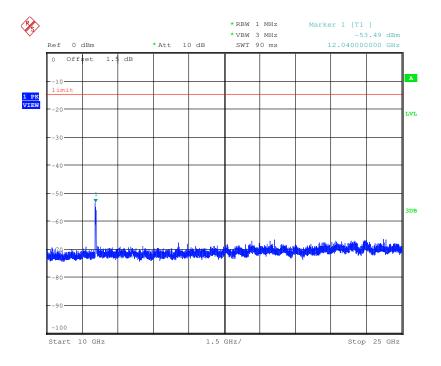
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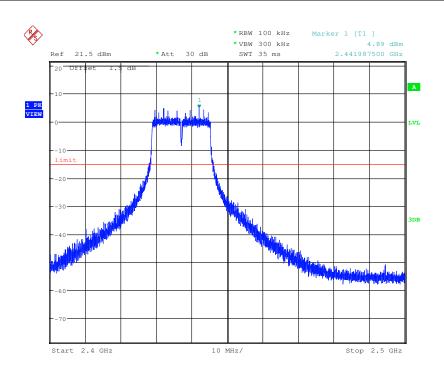
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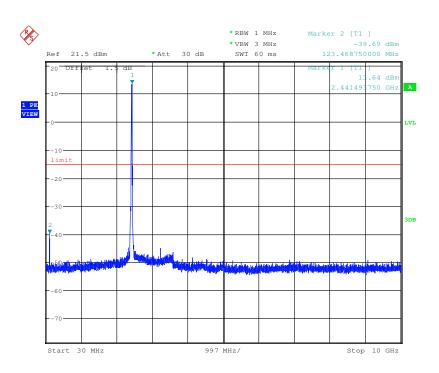


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Test mode: 802.11g Test channel: Middle

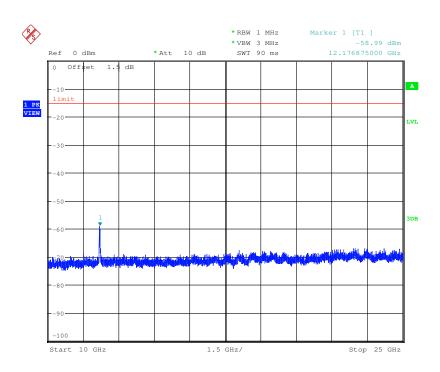




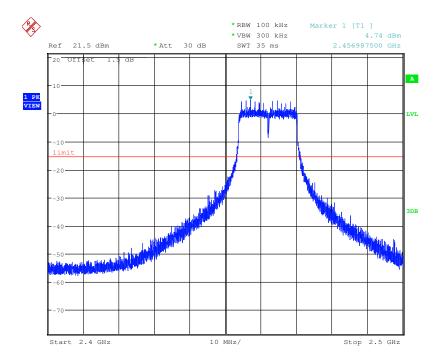


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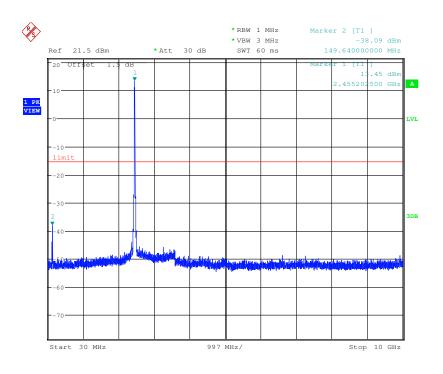


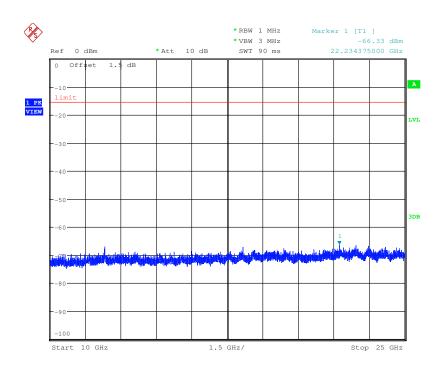
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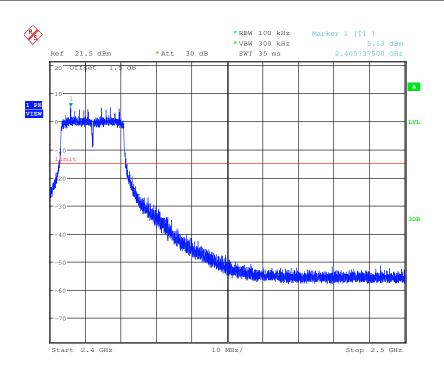
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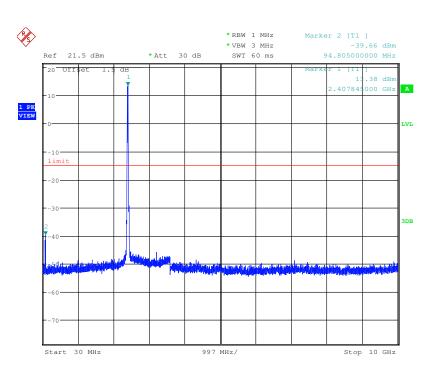


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Test mode: 802.11n(HT20) Test channel: Lowest



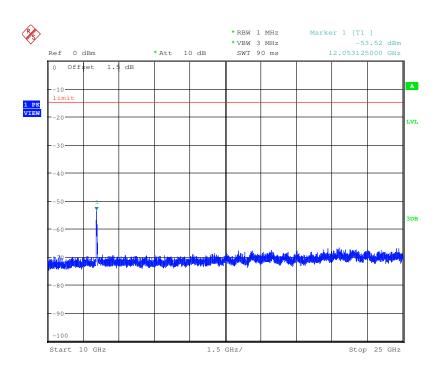


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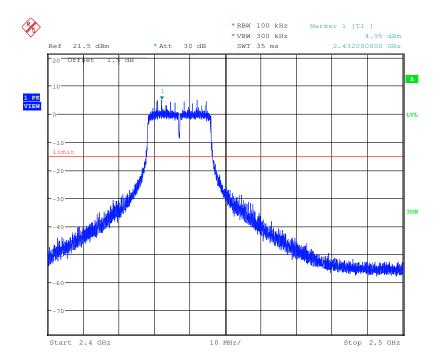


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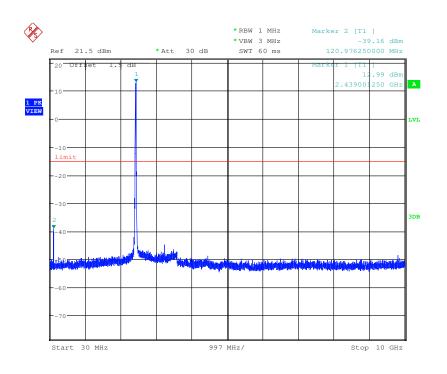


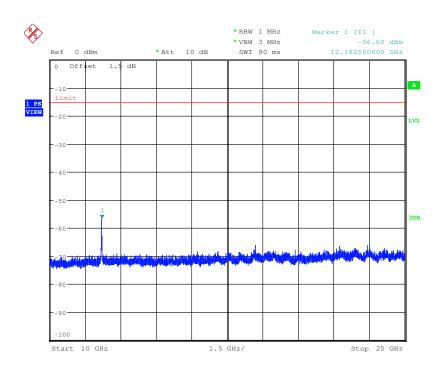
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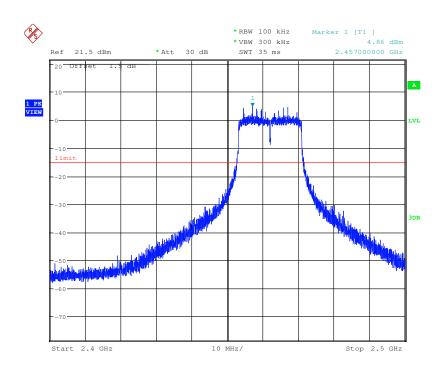
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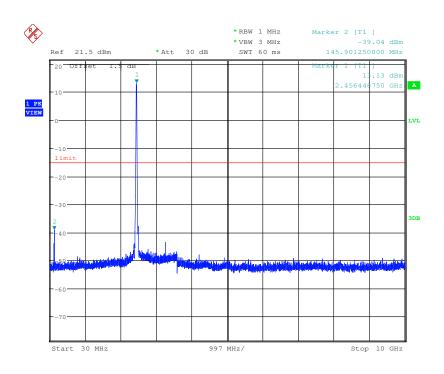


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Test mode: 802.11n(HT20) Test channel: Highest



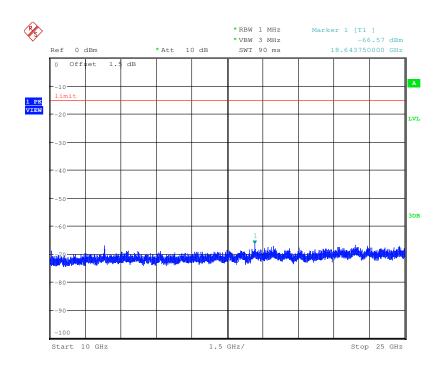


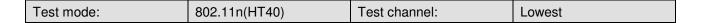
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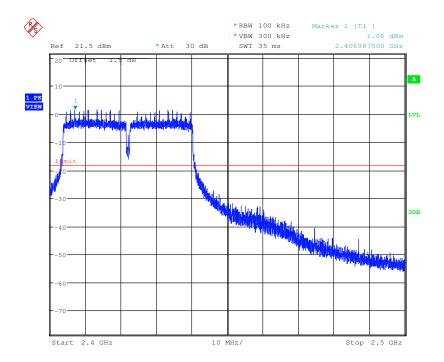


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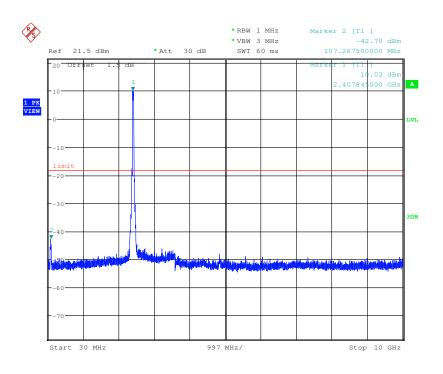


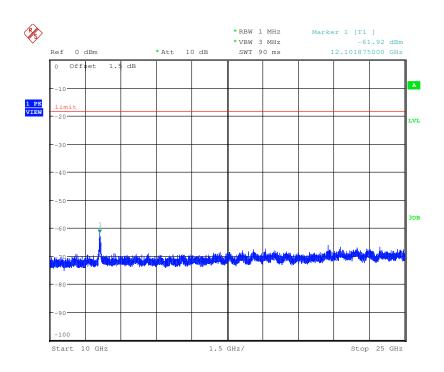




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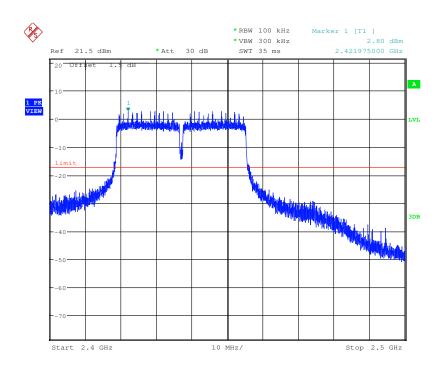
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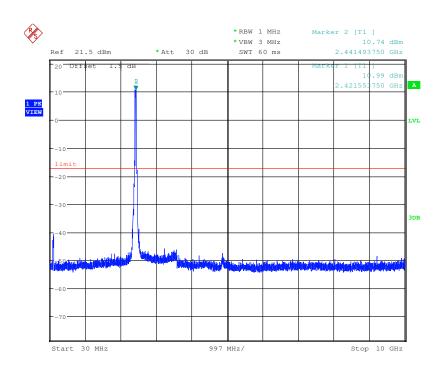


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Test mode: 802.11n(HT40) Test channel: Middle

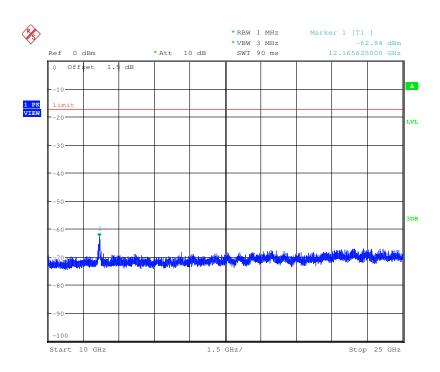




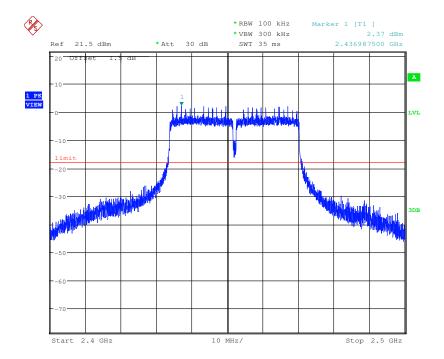


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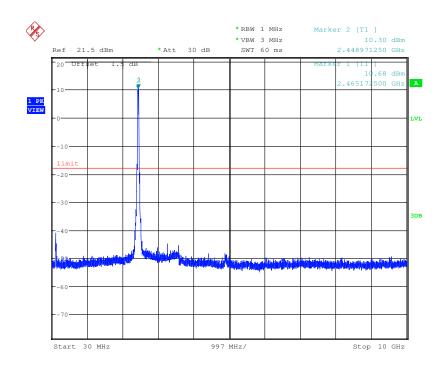


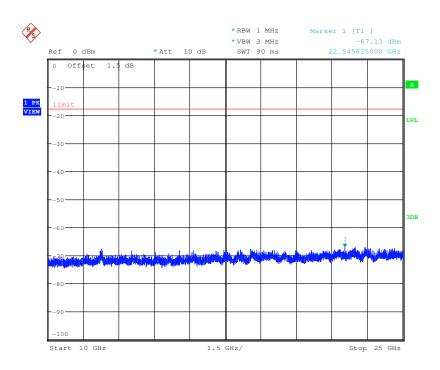
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Remark:

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 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12								
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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								

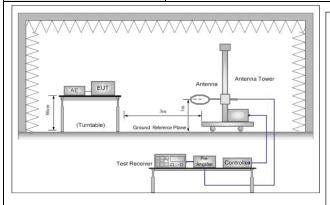
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Test Setup:



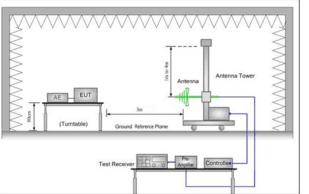


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

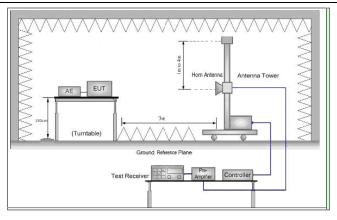


Figure 3. Above 1 GHz

Test Procedure:

- a. 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 Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the



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	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.
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
	 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.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

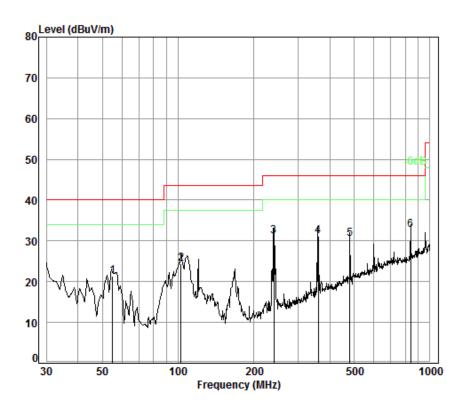


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6.8.1 Radiated emission below 1GHz

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



Condition: 3m Vertical

Job No. : 0336CR

Test Mode: 1

	Freq	Cable Loss		Preamp Factor			Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	55.10	0.80	7.99	25.95	38.62	21.46	40.00	-18.54
2	102.63	1.21	8.99	25.90	40.10	24.40	43.50	-19.10
3	240.20	1.62	11.90	25.74	43.30	31.08	46.00	-14.92
4	360.20	2.09	15.67	25.67	39.09	31.18	46.00	-14.82
5	480.36	2.53	17.68	25.63	36.00	30.58	46.00	-15.42
6 pp	839.32	3.36	22.26	25.50	32.60	32.72	46.00	-13.28

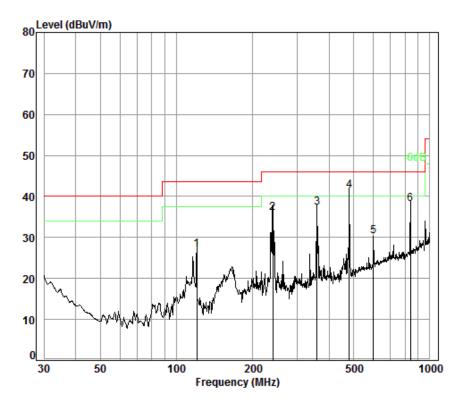
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Condition: 3m Horizontal

Job No. : 0336CR

Test mode: 1

		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	120.26	1.25	8.09	25.87	43.56	27.03	43.50	-16.47
2	240.25	1.62	11.90	25.74	48.24	36.02	46.00	-9.98
3	359.16	2.09	15.65	25.67	45.22	37.29	46.00	-8.71
4 pp	480.53	2.53	17.68	25.63	46.88	41.46	46.00	-4.54
5	599.32	2.70	19.68	25.60	33.53	30.31	46.00	-15.69
6	839.18	3.36	22.26	25.50	37.94	38.06	46.00	-7.94



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6.8.2 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)	Polarization
3589.562	32.08	7.66	38.40	48.02	49.36	74	-24.64	Vertical
4824.000	34.12	8.90	38.75	48.15	52.42	74	-21.58	Vertical
5999.562	34.70	10.56	38.96	46.12	52.42	74	-21.58	Vertical
7236.000	35.58	10.69	37.63	43.47	52.11	74	-21.89	Vertical
9648.000	37.10	12.52	36.29	37.86	51.19	74	-22.81	Vertical
12603.270	37.90	14.44	37.75	38.15	52.74	74	-21.26	Vertical
3881.276	32.98	7.77	38.52	45.95	48.18	74	-25.82	Horizontal
4824.000	34.12	8.90	38.75	49.04	53.31	74	-20.69	Horizontal
6034.386	34.72	10.52	38.91	46.05	52.38	74	-21.62	Horizontal
7236.000	35.58	10.69	37.63	42.54	51.18	74	-22.82	Horizontal
9648.000	37.10	12.52	36.29	35.28	48.61	74	-25.39	Horizontal
12603.270	37.90	14.44	37.75	36.49	51.08	74	-22.92	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
3377.918	31.80	7.60	38.31	45.88	46.97	74	-27.03	Vertical
4874.000	34.17	8.97	38.76	48.41	52.79	74	-21.21	Vertical
6016.949	34.71	10.54	38.94	46.36	52.67	74	-21.33	Vertical
7311.000	35.54	10.72	37.59	41.69	50.36	74	-23.64	Vertical
9748.000	37.10	12.58	36.16	37.54	51.06	74	-22.94	Vertical
12603.270	37.90	14.44	37.75	37.36	51.95	74	-22.05	Vertical
3579.190	32.07	7.66	38.40	48.32	49.65	74	-24.35	Horizontal
4874.000	34.17	8.97	38.76	48.21	52.59	74	-21.41	Horizontal
6016.949	34.71	10.54	38.94	46.49	52.80	74	-21.20	Horizontal
7311.000	35.54	10.72	37.59	41.91	50.58	74	-23.42	Horizontal
9748.000	37.10	12.58	36.16	38.06	51.58	74	-22.42	Horizontal
12676.420	37.94	14.65	37.82	37.92	52.69	74	-21.31	Horizontal



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Test mode:	802	.11b	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3589.562	32.08	7.66	38.40	46.86	48.20	74	-25.80	Vertical
4924.000	34.22	9.04	38.77	47.90	52.39	74	-21.61	Vertical
6087.002	34.74	10.45	38.85	47.05	53.39	74	-20.61	Vertical
7386.000	35.51	10.75	37.56	40.74	49.44	74	-24.56	Vertical
9848.000	37.15	12.63	36.03	37.26	51.01	74	-22.99	Vertical
12566.850	37.87	14.34	37.72	37.38	51.87	74	-22.13	Vertical
3748.808	32.70	7.72	38.47	45.91	47.86	74	-26.14	Horizontal
4924.000	34.22	9.04	38.77	48.56	53.05	74	-20.95	Horizontal
6016.949	34.71	10.54	38.94	45.76	52.07	74	-21.93	Horizontal
7386.000	35.51	10.75	37.56	40.54	49.24	74	-24.76	Horizontal
9848.000	37.15	12.63	36.03	38.08	51.83	74	-22.17	Horizontal
12639.790	37.92	14.55	37.79	37.76	52.44	74	-21.56	Horizontal

Test mode:	8	302.1	1g	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Cabl Loss (dB)	s	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.7	8	7.73	38.47	45.86	47.90	74	-26.10	Vertical
4824.000	34.1	2	8.90	38.75	46.06	50.33	74	-23.67	Vertical
5999.562	34.7	0	10.56	38.96	46.30	52.60	74	-21.40	Vertical
7236.000	35.5	8	10.69	37.63	44.09	52.73	74	-21.27	Vertical
9648.000	37.1	0	12.52	36.29	37.15	50.48	74	-23.52	Vertical
12530.530	37.8	3	14.24	37.68	37.67	52.06	74	-21.94	Vertical
3727.173	32.6	1	7.71	38.46	46.35	48.21	74	-25.79	Horizontal
4824.000	34.1	2	8.90	38.75	47.08	51.35	74	-22.65	Horizontal
6008.249	34.7	0	10.55	38.95	46.50	52.80	74	-21.20	Horizontal
7236.000	35.5	8	10.69	37.63	43.80	52.44	74	-21.56	Horizontal
9648.000	37.1	0	12.52	36.29	36.64	49.97	74	-24.03	Horizontal
12566.850	37.8	7	14.34	37.72	37.93	52.42	74	-21.58	Horizontal



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Test mode:	802	.11g	Test ch	annel:	Middle	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3599.965	32.10	7.67	38.41	46.39	47.75	74	-26.25	Vertical
4874.000	34.17	8.97	38.76	46.21	50.59	74	-23.41	Vertical
6025.661	34.71	10.53	38.93	46.40	52.71	74	-21.29	Vertical
7311.000	35.54	10.72	37.59	42.28	50.95	74	-23.05	Vertical
9748.000	37.10	12.58	36.16	37.28	50.80	74	-23.20	Vertical
12566.850	37.87	14.34	37.72	37.91	52.40	74	-21.60	Vertical
3705.664	32.53	7.71	38.45	46.23	48.02	74	-25.98	Horizontal
4874.000	34.17	8.97	38.76	47.56	51.94	74	-22.06	Horizontal
5999.562	34.70	10.56	38.96	47.00	53.30	74	-20.70	Horizontal
7311.000	35.54	10.72	37.59	41.25	49.92	74	-24.08	Horizontal
9748.000	37.10	12.58	36.16	37.43	50.95	74	-23.05	Horizontal
12585.040	37.89	14.39	37.73	37.43	51.98	74	-22.02	Horizontal

Test mode: 80		.11g	Test channel:		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
3759.672	32.74	7.73	38.47	45.75	47.75	74	-26.25	Vertical
4924.000	34.22	9.04	38.77	47.60	52.09	74	-21.91	Vertical
6016.949	34.71	10.54	38.94	46.40	52.71	74	-21.29	Vertical
7386.000	35.51	10.75	37.56	40.69	49.39	74	-24.61	Vertical
9848.000	37.15	12.63	36.03	37.49	51.24	74	-22.76	Vertical
12530.530	37.83	14.24	37.68	37.32	51.71	74	-22.29	Vertical
3641.878	32.27	7.68	38.42	46.07	47.60	74	-26.40	Horizontal
4924.000	34.22	9.04	38.77	48.80	53.29	74	-20.71	Horizontal
5999.562	34.70	10.56	38.96	46.41	52.71	74	-21.29	Horizontal
7386.000	35.51	10.75	37.56	42.65	51.35	74	-22.65	Horizontal
9848.000	37.15	12.63	36.03	37.37	51.12	74	-22.88	Horizontal
12494.320	37.79	14.15	37.65	38.00	52.29	74	-21.71	Horizontal



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Test mode:	802	.11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3803.444	32.90	7.74	38.49	46.26	48.41	74	-25.59	Vertical	
4824.000	34.12	8.90	38.75	46.37	50.64	74	-23.36	Vertical	
6051.874	34.73	10.49	38.89	46.66	52.99	74	-21.01	Vertical	
7236.000	35.58	10.69	37.63	42.72	51.36	74	-22.64	Vertical	
9648.000	37.10	12.52	36.29	37.15	50.48	74	-23.52	Vertical	
12530.530	37.83	14.24	37.68	37.26	51.65	74	-22.35	Vertical	
3770.567	32.78	7.73	38.47	46.34	48.38	74	-25.62	Horizontal	
4824.000	34.12	8.90	38.75	46.71	50.98	74	-23.02	Horizontal	
5999.562	34.70	10.56	38.96	46.64	52.94	74	-21.06	Horizontal	
7236.000	35.58	10.69	37.63	43.01	51.65	74	-22.35	Horizontal	
9648.000	37.10	12.52	36.29	37.93	51.26	74	-22.74	Horizontal	
12530.530	37.83	14.24	37.68	38.27	52.66	74	-21.34	Horizontal	

Test mode:	802	.11n(HT20)	Test ch	annel:	Middle	Remark		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3759.672	32.74	7.73	38.47	45.63	47.63	74	-26.37	Vertical	
4874.000	34.17	8.97	38.76	46.94	51.32	74	-22.68	Vertical	
5982.226	34.66	10.51	38.96	46.14	52.35	74	-21.65	Vertical	
7311.000	35.54	10.72	37.59	42.43	51.10	74	-22.90	Vertical	
9748.000	37.10	12.58	36.16	36.55	50.07	74	-23.93	Vertical	
12603.270	37.90	14.44	37.75	37.15	51.74	74	-22.26	Vertical	
3716.403	32.57	7.71	38.45	45.58	47.41	74	-26.59	Horizontal	
4874.000	34.17	8.97	38.76	47.32	51.70	74	-22.30	Horizontal	
6069.413	34.74	10.47	38.87	46.34	52.68	74	-21.32	Horizontal	
7311.000	35.54	10.72	37.59	42.08	50.75	74	-23.25	Horizontal	
9748.000	37.10	12.58	36.16	37.33	50.85	74	-23.15	Horizontal	
12566.850	37.87	14.34	37.72	37.33	51.82	74	-22.18	Horizontal	

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Test mode:		802.	11n(HT20)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cab Los (dB	s	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.7	78	7.73	38.47	45.45	47.49	74	-26.51	Vertical
4924.000	34.2	22	9.04	38.77	47.31	51.80	74	-22.20	Vertical
5982.226	34.6	66	10.51	38.96	46.44	52.65	74	-21.35	Vertical
7386.000	35.5	51	10.75	37.56	41.02	49.72	74	-24.28	Vertical
9848.000	37.1	5	12.63	36.03	37.53	51.28	74	-22.72	Vertical
12603.270	37.9	90	14.44	37.75	37.48	52.07	74	-21.93	Vertical
3881.276	32.9	98	7.77	38.52	45.85	48.08	74	-25.92	Horizontal
4924.000	34.2	22	9.04	38.77	49.00	53.49	74	-20.51	Horizontal
6069.413	34.7	74	10.47	38.87	46.15	52.49	74	-21.51	Horizontal
7386.000	35.5	51	10.75	37.56	40.26	48.96	74	-25.04	Horizontal
9848.000	37.1	5	12.63	36.03	38.51	52.26	74	-21.74	Horizontal
12530.530	37.8	33	14.24	37.68	38.24	52.63	74	-21.37	Horizontal

Test mode:	802	.11n(HT40)	Test ch	annel:	Lowest	Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3937.843	33.04	7.79	38.54	46.36	48.65	74	-25.35	Vertical	
4844.000	34.14	8.92	38.76	45.08	49.38	74	-24.62	Vertical	
5982.226	34.66	10.51	38.96	46.73	52.94	74	-21.06	Vertical	
7266.000	35.57	10.70	37.61	42.91	51.57	74	-22.43	Vertical	
9688.000	37.10	12.54	36.24	36.66	50.06	74	-23.94	Vertical	
12621.510	37.91	14.50	37.77	38.10	52.74	74	-21.26	Vertical	
3641.878	32.27	7.68	38.42	45.79	47.32	74	-26.68	Horizontal	
4844.000	34.14	8.92	38.76	47.36	51.66	74	-22.34	Horizontal	
6087.002	34.74	10.45	38.85	46.25	52.59	74	-21.41	Horizontal	
7266.000	35.57	10.70	37.61	42.75	51.41	74	-22.59	Horizontal	
9688.000	37.10	12.54	36.24	36.82	50.22	74	-23.78	Horizontal	
12603.270	37.90	14.44	37.75	38.47	53.06	74	-20.94	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)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3589.562	32.08	7.66	38.40	46.91	48.25	74	-25.75	Vertical
4874.000	34.17	8.97	38.76	46.49	50.87	74	-23.13	Vertical
6016.949	34.71	10.54	38.94	46.43	52.74	74	-21.26	Vertical
7311.000	35.54	10.72	37.59	42.24	50.91	74	-23.09	Vertical
9748.000	37.10	12.58	36.16	38.02	51.54	74	-22.46	Vertical
12566.850	37.87	14.34	37.72	37.70	52.19	74	-21.81	Vertical
3748.808	32.70	7.72	38.47	45.80	47.75	74	-26.25	Horizontal
4874.000	34.17	8.97	38.76	46.09	50.47	74	-23.53	Horizontal
6034.386	34.72	10.52	38.91	46.70	53.03	74	-20.97	Horizontal
7311.000	35.54	10.72	37.59	42.09	50.76	74	-23.24	Horizontal
9748.000	37.10	12.58	36.16	38.67	52.19	74	-21.81	Horizontal
12603.270	37.90	14.44	37.75	39.08	53.67	74	-20.33	Horizontal

Test mode:	802	2.11n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3589.562	32.08	7.66	38.40	46.70	48.04	74	-25.96	Vertical
4904.000	34.21	9.01	38.77	46.92	51.37	74	-22.63	Vertical
6087.002	34.74	10.45	38.85	46.90	53.24	74	-20.76	Vertical
7356.000	35.52	10.74	37.57	40.50	49.19	74	-24.81	Vertical
9808.000	37.11	12.61	36.08	38.40	52.04	74	-21.96	Vertical
12639.790	37.92	14.55	37.79	38.49	53.17	74	-20.83	Vertical
3792.453	32.87	7.74	38.48	45.97	48.10	74	-25.90	Horizontal
4904.000	34.21	9.01	38.77	48.99	53.44	74	-20.56	Horizontal
5999.562	34.70	10.56	38.96	46.55	52.85	74	-21.15	Horizontal
7356.000	35.52	10.74	37.57	40.75	49.44	74	-24.56	Horizontal
9808.000	37.11	12.61	36.08	37.46	51.10	74	-22.90	Horizontal
12530.530	37.83	14.24	37.68	37.86	52.25	74	-21.75	Horizontal

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Remark:

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

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

- 2) 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.

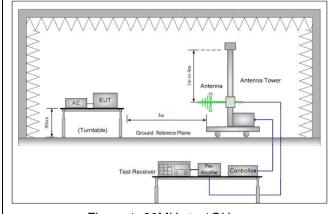


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	5.209 and 15.205	
Test Method:	ANSI C63.10: 2013 Section	11.12	
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 1011z	54.0	Average Value
	Above 1GHz	74.0	Peak Value
Test Setup:			



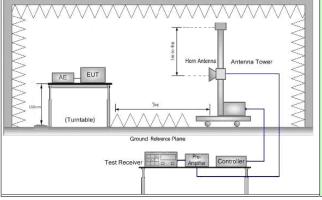


Figure 1. 30MHz to 1GHz

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.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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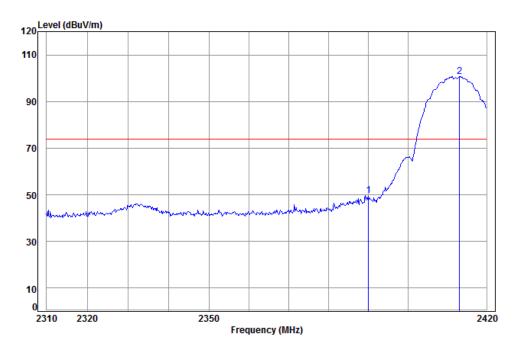
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Test plot as follows:

802.11b

Worse case mode:	Test channel:	Lowest	Remark:	Peak	Vertical
------------------	---------------	--------	---------	------	----------



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: B

2413.14

5.36

28.66

2 pp

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Frea Level Level Line dBuV dBuV/m dBuV/m MHz dΒ dB/m 2390.00 5.34 28.57 38.11 54.03 49.83 74.00 -24.17

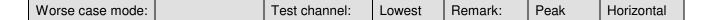
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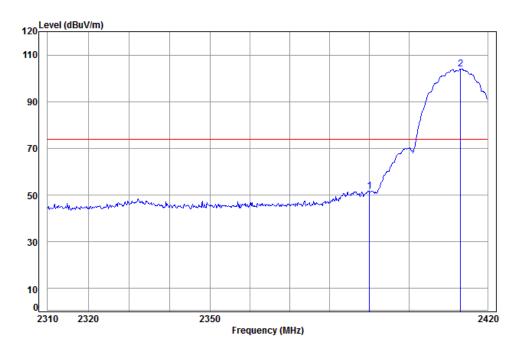
38.11 104.88 100.79 74.00 26.79



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Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2412 Band edge

: B

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m 38.11 55.90 51.70 74.00 -22.30 1 pk 2390.00 5.34 28.57 5.36 28.66 38.11 108.10 104.01 74.00 30.01 2 pp 2413.14

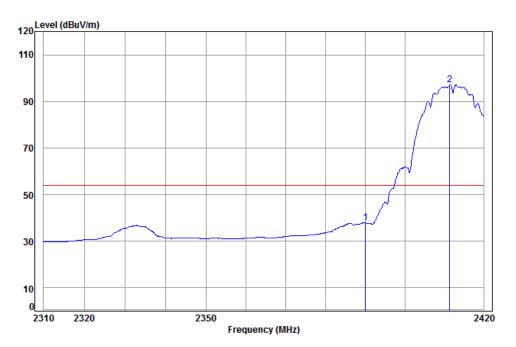
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Worse case mode: Test channel: Lowest Remark: Average Vertical



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: B

Ant Preamp Cable Read Limit Freq Loss Factor Factor Level Level Line Limit MHz dB/m dBuV dBuV/m dBuV/m 1 av 2390.00 5.34 28.57 38.11 42.07 37.87 54.00 -16.13 5.35 28.65 38.11 101.17 97.06 54.00 43.06 2 pp 2411.35

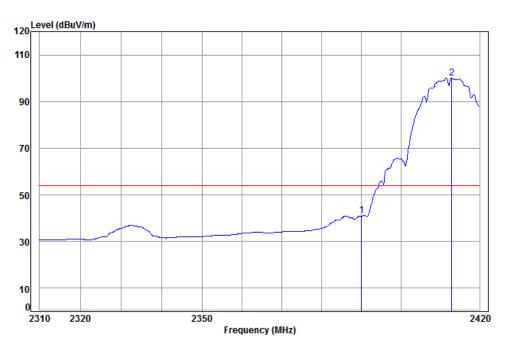
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Worse case mode: Test channel: Lowest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2412 Band edge

: B

Cable Ant Preamp Read 0ver Limit Freq Loss Factor Factor Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1 av 2390.00 5.34 28.57 38.11 45.39 41.19 54.00 -12.81 2 pp 2412.92 5.35 28.66 38.11 104.28 100.18 54.00 46.18

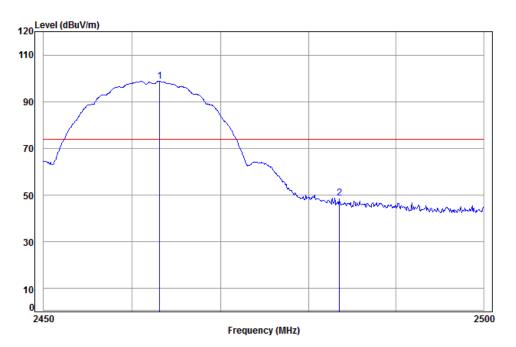
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Worse case mode:	Test	channel: Highest	Remark:	Peak	Vertical	l
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Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: B

Ant Preamp Cable. Read Limit Over Loss Factor Factor Freq Level Level Limit MHz dB dB/m dBuV dBuV/m dBuV/m 38.12 102.60 98.76 74.00 24.76 2463.10 5.39 28.89 2 pk 2483.50 5.41 28.98 38.12 52.49 48.76 74.00 -25.24

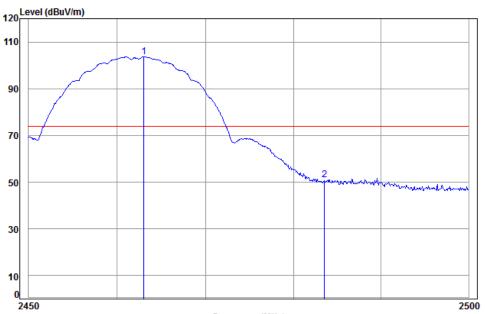
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Worse case mode:	Test channel:	Highest	Remark:	Peak	Horizontal
		1 9			



Frequency (MHz)

Condition: 3m Horizontal

Job No: : 0336CR

1

Mode: : 2462 Band edge

: B

	Limit Line						Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	_
							2463.00 2483.50	• •

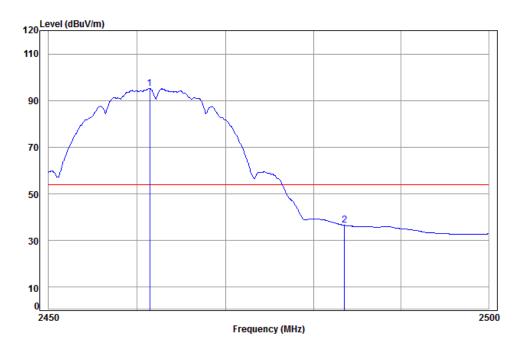
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Worse case mode:	Test channel:	Highest	Remark:	Average	Vertical
		1			



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: 8

1

				Preamp Factor			Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
							2461.41	

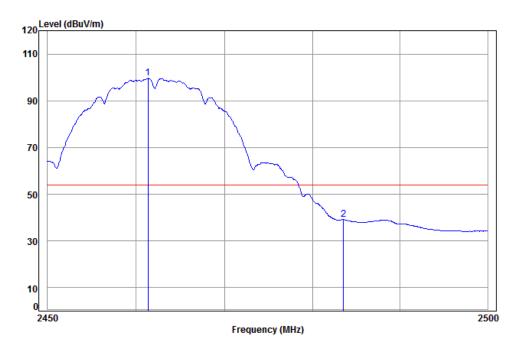
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Worse case mode:	Test channel:	Highest	Remark:	Average	Horizontal
------------------	---------------	---------	---------	---------	------------



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2462 Band edge

: B

	Freq				Read Level			
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2461.31							
2 av	2483.50	5.41	28.98	38.12	42.85	39.12	54.00	-14.88

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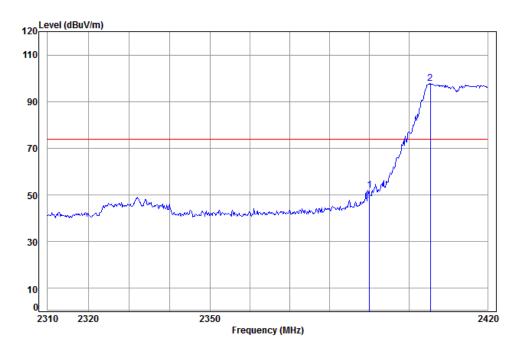


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802.11g

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



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: G

	Limit Line						Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	_
							2390.00	•

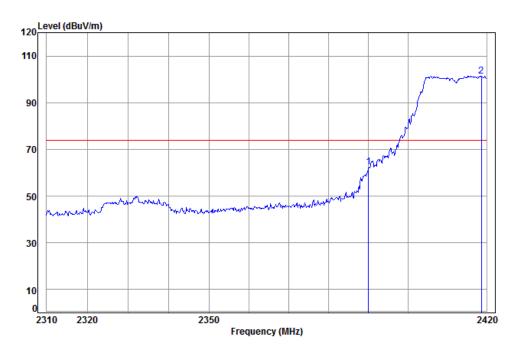
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Worse case mode: Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

1

Mode: : 2412 Band edge

: G

	Limit Line						Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	-
							2390.00 2418.65	•

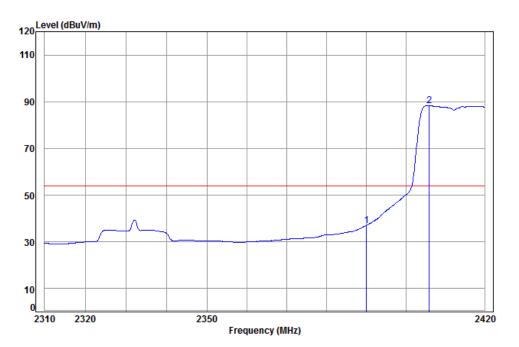
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Worse case mode: Test channel: Lowest Remark: Average Vertical



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: G

Ant Preamp Cable. Read limit Over Loss Factor Factor Freq Level Level Line Limit MHz dB dBuV dBuV/m dBuV/m dB/m 1 av 2390.00 5.34 28.57 38.11 41.31 37.11 54.00 -16.89 5.35 28.63 38.11 92.37 88.24 54.00 34.24 2 pp 2405.86

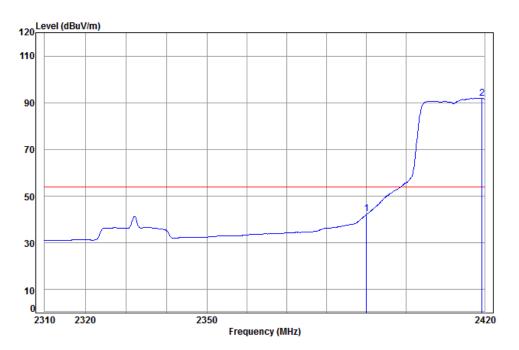
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Worse case mode: Test channel: Lowest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2412 Band edge

: G

		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 av	2390.00	5.34	28.57	38.11	46.54	42.34	54.00	-11.66
2 pp	2419.33	5.36	28.69	38.11	95.91	91.85	54.00	37.85

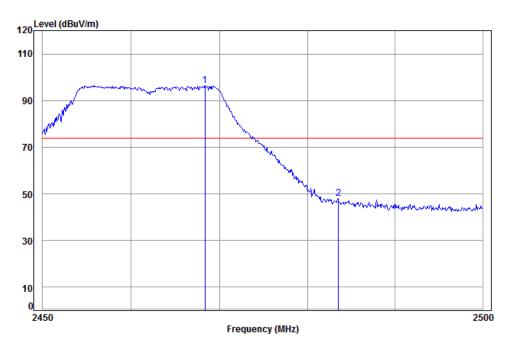
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Worse case mode:	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: G

Cable Ant Preamp Read 0ver Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dB dB/m 1 pp 2468.33 5.40 28.92 38.12 100.12 96.32 74.00 22.32 5.41 28.98 38.12 51.83 48.10 74.00 -25.90 2 pk 2483.50

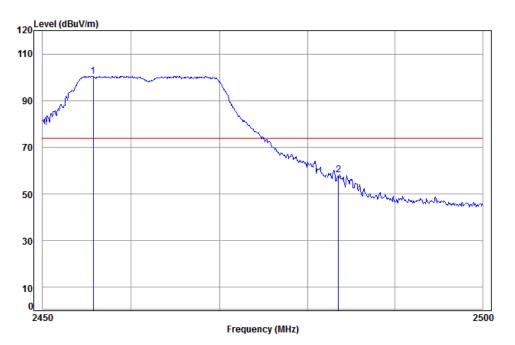
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Worse case mode:	Test channel:	Highest	Remark:	Peak	Horizontal
		1 9			



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2462 Band edge

Cable

: G

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2455.70	5.39	28.86	38.12	104.36	100.49	74.00	26.49
2 pl	k 2483.50	5.41	28.98	38.12	61.88	58.15	74.00	-15.85

Read

Limit

0ver

Ant Preamp

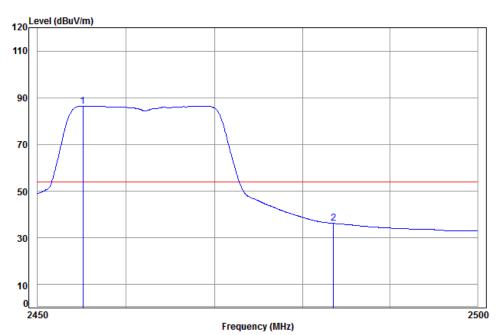
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Worse case mode:	Test channel:	Highest	Remark:	Average	Vertical
		1			



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: G

	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
• • •	2455.10 2483.50							

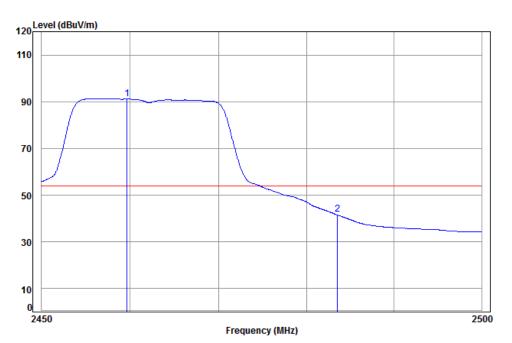
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Worse case mode:	Test channel:	Highest	Remark:	Average	Horizontal
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Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2462 Band edge

: G

				Ant Preamp Rea Factor Factor Leve				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2459.62 2483.50							

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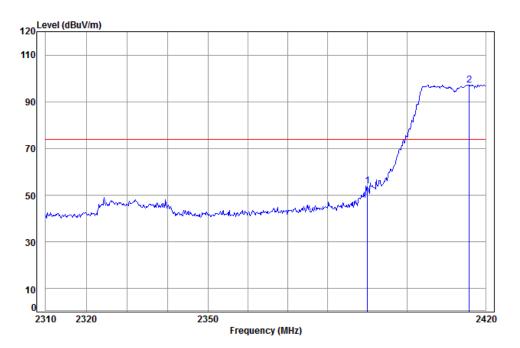


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802.11n(HT20)

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



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: N20

Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB

1 pk 2390.00 5.34 28.57 38.11 58.10 53.90 74.00 -20.10 2 pp 2415.84 5.36 28.67 38.11 101.26 97.18 74.00 23.18

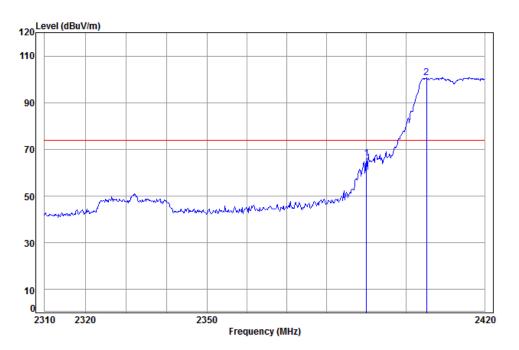
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Worse case mode: Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2412 Band edge

: N20

Ant Preamp Cable. Read Limit Over Loss Factor Factor Freq Level Level Limit MHz dB dB/m dBuV dBuV/m dBuV/m 2390.00 5.34 28.57 38.11 70.18 65.98 74.00 -8.02 5.35 28.62 38.11 104.86 100.72 74.00 26.72 2405.19

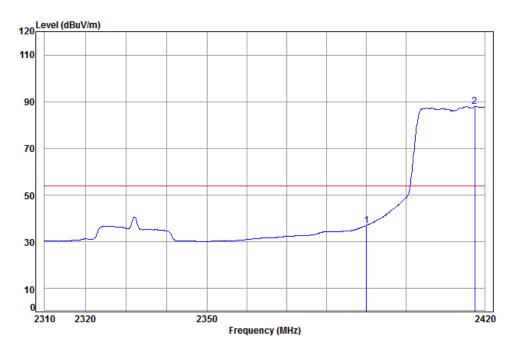
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Worse case mode:	Test channel:	Lowest	Remark:	Average	Vertical



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2412 Band edge

: N20

Ant Preamp Cable. Read limit Over Loss Factor Factor Freq Level Level Limit MHz dB dB/m dBuV dBuV/m dBuV/m 1 av 2390.00 5.34 28.57 38.11 41.22 37.02 54.00 -16.98 5.36 28.68 38.11 91.98 87.91 54.00 33.91 2 pp 2417.53

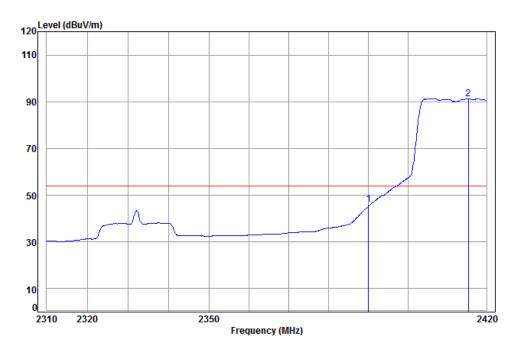
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١	Worse case mode:	Test channel:	Lowest	Remark:	Average	Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2412 Band edge

: N20

		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 av	2390.00	5.34	28.57	38.11	50.29	46.09	54.00	-7.91
2 pp	2415.39	5.36	28.67	38.11	95.47	91.39	54.00	37.39

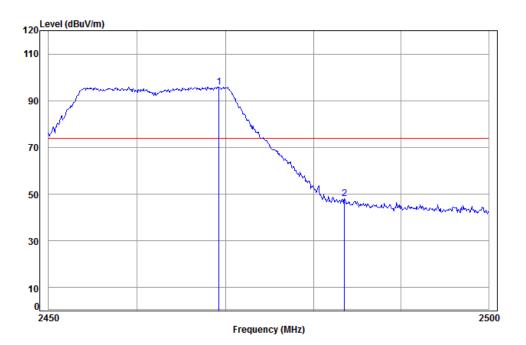
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Worse case mode:	Test channel:	Highest	Remark:	Peak	Vertical
------------------	---------------	---------	---------	------	----------



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: N20

Cable. Ant Preamp Read limit Over Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 2469.23 5.40 28.92 38.12 99.67 95.87 74.00 21.87 5.41 28.98 38.12 51.79 48.06 74.00 -25.94 2 pk 2483.50

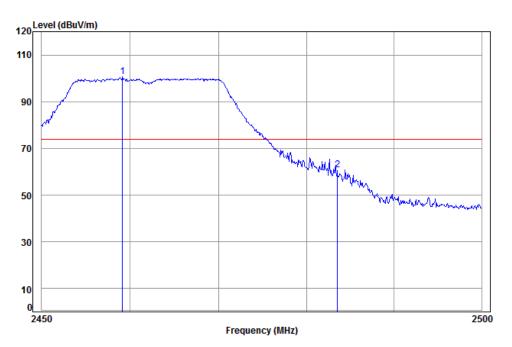
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Worse case mode: Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2462 Band edge

: N20

Ant Preamp Cable. Read limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dBuV dBuV/m dBuV/m 2459.12 5.39 28.87 38.12 104.45 100.59 74.00 26.59 5.41 28.98 38.12 64.49 60.76 74.00 -13.24 2 pk 2483.50

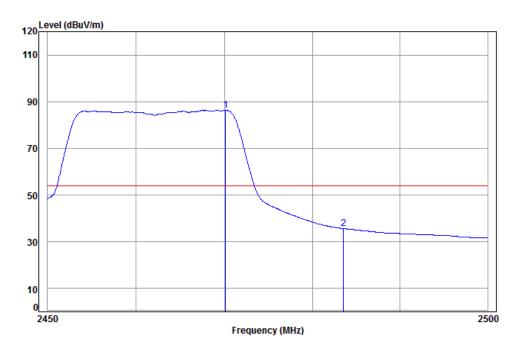
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Worse case mode:	Test channel:	Highest	Remark:	Average	Vertical
		1 9			



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2462 Band edge

: N20

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Limit dBuV dBuV/m dBuV/m MHz dB dB/m 2470.13 5.40 28.92 38.12 90.11 86.31 54.00 32.31 2483.50 5.41 28.98 38.12 39.40 35.67 54.00 -18.33

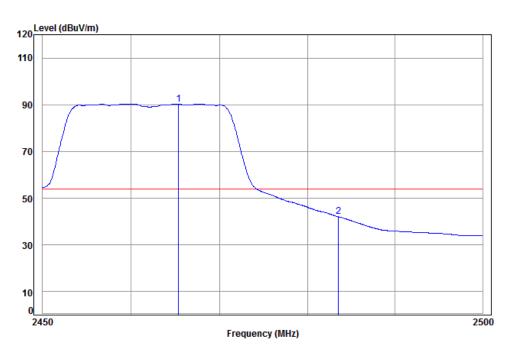
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Worse case mode: Test channel: Highest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2462 Band edge

: N20

Cable. Ant Preamp limit Over Read Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 2465.34 5.39 28.90 38.12 94.21 90.38 54.00 36.38 5.41 28.98 38.12 45.78 42.05 54.00 -11.95 2483.50

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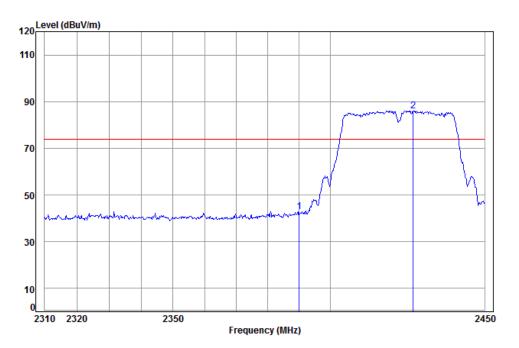


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802.11n(HT40)

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



Condition: 3m Vertical Job No: : 0336CR

: 2422 Band edge

2426.76

5.37

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dΒ dB/m dΒ 2390.00 5.34 28.57 38.11 47.09 42.89 74.00 -31.11 28.72 38.11 90.10 86.08 74.00 12.08

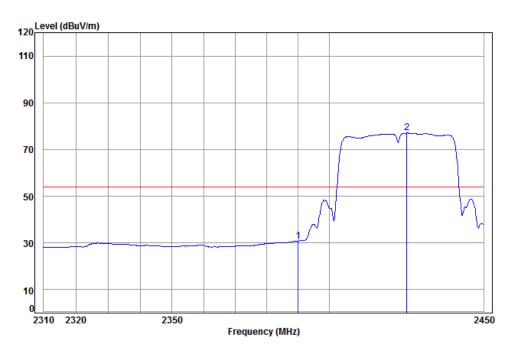
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Worse case mode: Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2422 Band edge

: N40

Cable. Ant Preamp limit Over Read Freq Loss Factor Factor Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 2390.00 5.34 28.57 38.11 35.05 30.85 54.00 -23.15 5.36 28.72 38.11 81.04 77.01 54.00 23.01 2 pp 2425.04

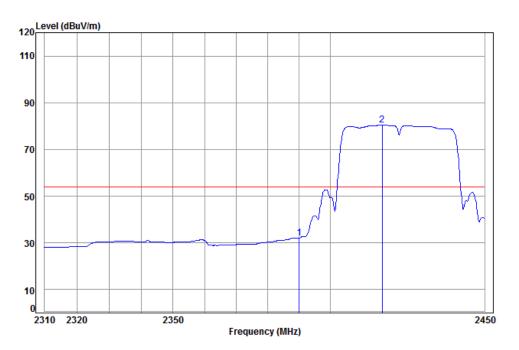
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Worse case mode: Test channel: Lowest Remark: Average Vertical



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2422 Band edge

: N40

		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 av	2390.00	5.34	28.57	38.11	36.26	32.06	54.00	-21.94
2 pp	2416.64	5.36	28.68	38.11	84.47	80.40	54.00	26.40

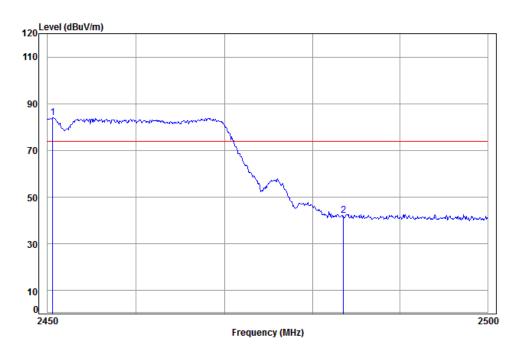
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١	Worse case mode:	Test channel:	Lowest	Remark:	Average	Horizontal



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2452 Band edge

: N40

Cable. Ant Preamp Read limit Over Loss Factor Factor Freq Level Level Line Limit MHz dBuV dBuV/m dBuV/m dB dB/m 2450.59 5.38 28.83 38.12 87.93 84.02 74.00 10.02 5.41 28.98 38.12 45.94 42.21 74.00 -31.79 2 pk 2483.50

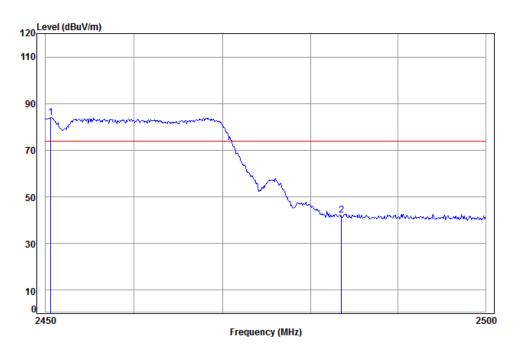
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Worse case mode: Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 0336CR

Mode: : 2452 Band edge

: N40

Cable Ant Preamp Read 0ver Limit Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m dB dB/m 2450.59 5.38 28.83 38.12 87.93 84.02 74.00 10.02 1 pp 2 pk 2483.50 5.41 28.98 38.12 45.94 42.21 74.00 -31.79

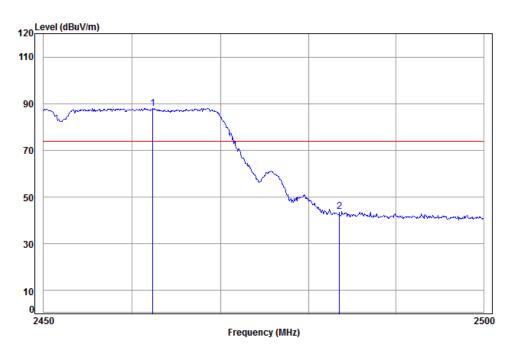
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Worse case mode: Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2452 Band edge

: N40

Ant Preamp Cable Read Limit 0ver Loss Factor Factor Freq Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m 2462.31 5.39 28.89 38.12 91.85 88.01 74.00 14.01 2 pk 2483.50 5.41 28.98 38.12 47.59 43.86 74.00 -30.14

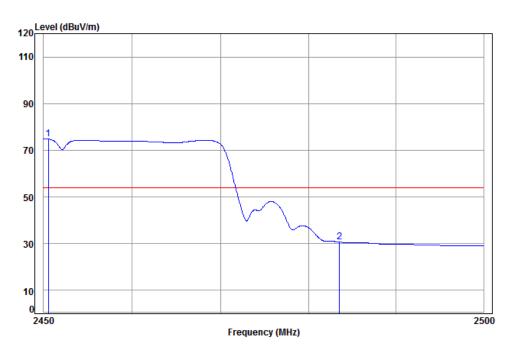
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Worse case mode:	Test channel:	Highest	Remark:	Average	Vertical
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Condition: 3m Vertical Job No: : 0336CR

Mode: : 2452 Band edge

: N40

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m 2450.54 5.38 28.83 38.12 78.73 74.82 54.00 20.82 2483.50 5.41 28.98 38.12 34.53 30.80 54.00 -23.20

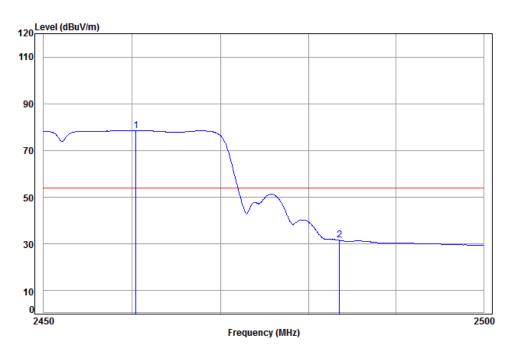
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Worse case mode: Test channel: Highest Remark: Average Horizontal



Condition: 3m Horizontal

Job No: : 0336CR

Mode: : 2452 Band edge

: N40

		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	2460.42	5.39	28.88	38.12	82.35	78.50	54.00	24.50
2 av	2483.50	5.41	28.98	38.12	35.35	31.62	54.00	-22.38

Note:

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

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

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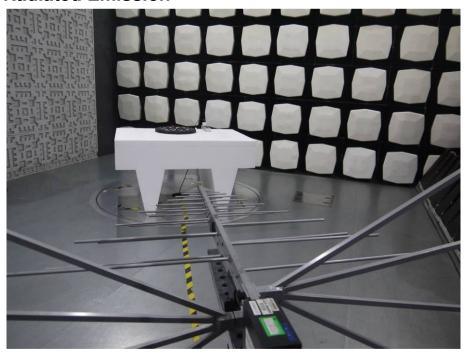
7 Photographs - EUT Test Setup

Test model No.: 7689

7.1 Conducted Emission



7.2 Radiated Emission



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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1601000336CR.