

Report No.: SHCR230300042403

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# TEST REPORT

Application No.: SHCR2303000424HS

 FCC ID:
 2BA2LG7

 IC:
 30328-G7

 Applicant:
 MGI Golf Inc

Address of Applicant: 6825 Speedway Blvd Suite #B101B Las Vegas, NEVADA 89115,United

States

Manufacturer: CADDIESTER GOLF BUGGY TECHNOLOGY LTD

Address of Manufacturer: NO.16-8 TONGZI RIVER WEST ROAD, ZHONGLOU DEVELOPMENT

DIST, CHANGZHOU, CHINA

Factory: CADDIESTER GOLF BUGGY TECHNOLOGY LTD

Address of Factory: NO.16-8 TONGZI RIVER WEST ROAD, ZHONGLOU DEVELOPMENT

DIST, CHANGZHOU, CHINA

**Equipment Under Test (EUT):** 

**EUT Name:** Golf Trolley **Model No.:** NAVIGATOR Ai

Trade Mark: MGI

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2023-03-02

**Date of Test:** 2023-03-17 to 2023-04-18

**Date of Issue:** 2023-06-06

Test Result: Pass\*

Parlam Zhan Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record			
Version	Description	Date	Remark	
00	Original	2023-06-06	I	

Authorized for issue by:		
	Wade thoug	
	Wade Zhang/Project Engineer	
	parlam zhan	
	Parlam Zhan / Reviewer	



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#### **Test Summary** 2

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration

N/A: Not applicable

Radio Spectrum Matter Part				
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	N/A*
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Note\*: The battery pack needs to be removed from the product for charging, so the WiFi function of EUT can not working in charging mode; therefore the AC Conducted Emission test is not applicable.



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### **General Information**

### Details of F U T

7.1	Details of L.O.T.	
	Power supply:	DC 28.8V 13Ah 380Wh Rechargeable Li-ion Battery
		Charging Adapter
		Model: LC-2323
		Input: AC 100-240V 50/60Hz 85W
		Output: DC 28.8V 2A
	Test Voltage:	DC 28.8V
	Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
	Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
	Channel Spacing:	5MHz
	Antenna Type:	FPC Antenna
	Antenna Gain:	2.2 dBi (Provided by manufacturer)
	Date Rate:	802.11b:1/2/5.5./11Mbps
		802.11g:6/9/12/18/24/36/48/54Mbps
		802.11n:MCS0-MCS7
	S/N:	UAINV1225233178
	Firmware Version:	Release_QFIL_WL_1.43.2_1.2.22

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-
Serial port adapter plate	-	Test Plate 3	-

### 4.3 Power level setting using in test:

	<u> </u>			
Channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Low	18	14	14	12
Middle	19	16	16	13
High	19	16	16	13



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### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
8	DE Dadiated newer	5.2dB (Below 1GHz)
0	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	Dedicted Courieus amission test	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc.) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



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### 4.6 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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# **Equipment List**

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	1	RF01~RF04	1	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	1
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	1	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	1	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	/	RE01, RE02, RE06	/	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	1	/



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# 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

#### Standard 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 FPC antenna and no consideration of replacement. The best case gain of the antenna is 2.2 dBi.

Antenna location: Refer to internal photo.



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# **Radio Spectrum Matter Test Results**

### 7.1 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.2

#### Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)	
	1 for ≥50 hopping channels	
902-928	0.25 for 25≤ hopping channels <50	
	1 for digital modulation	
	1 for ≥75 non-overlapping hopping channels	
2400-2483.5	0.125 for all other frequency hopping systems	
	1 for digital modulation	
5725-5850 1 for frequency hopping systems and digital modulation		

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 62.4 % RH Atmospheric Pressure: 1010 mbar

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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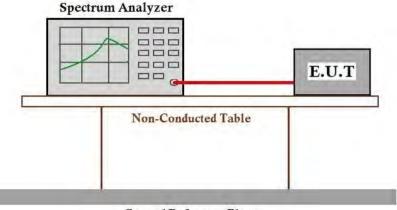
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#### 7.1.3 Test Setup Diagram



Ground Reference Plane

#### 7.1.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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#### 7.2 Minimum 6dB Bandwidth

47 CFR Part 15, Subpart C 15.247a(2) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

### 7.2.1 E.U.T. Operation

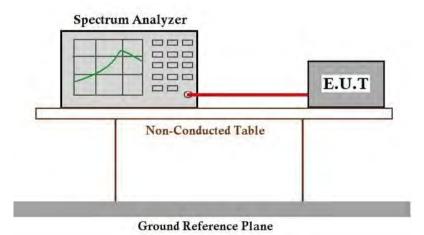
Operating Environment:

Temperature: 23.8 °C Humidity: 62.2 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.3 Power Spectrum Density

47 CFR Part 15, Subpart C 15.247(e) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.10.3

I imit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

#### 7.3.1 E.U.T. Operation

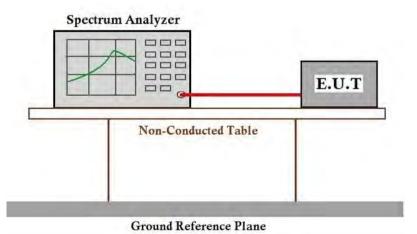
Operating Environment:

Temperature: 23.8 °C Humidity: 62.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

7.0.2 100111		
Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.13.3.2

#### I imit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 62.0 % RH Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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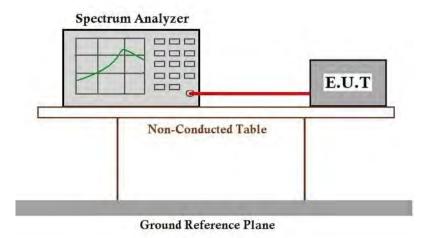
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#### 7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

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### 7.5 Conducted Spurious Emissions

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.11

#### I imit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 61.9 % RH Atmospheric Pressure: 1010 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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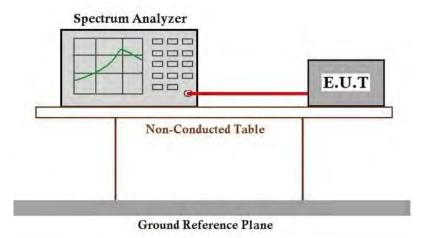
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#### 7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.6 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

ANSI C63.10 (2013) Section 6.10.5 Test Method:

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C Humidity: 61.8 % RH Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

1.0.2 Test W	loue De	scription
Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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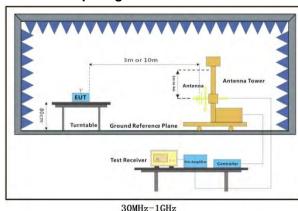
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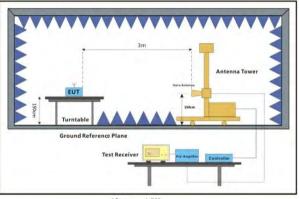


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#### 7.6.3 Test Setup Diagram





Above 1GHz

#### 7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. 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 fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 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 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.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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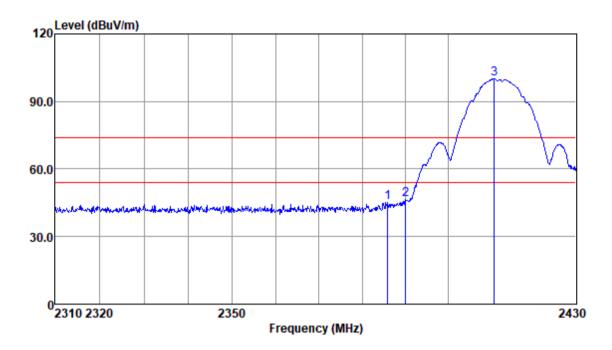
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.86	48.38	28.80	3.13	35.18	45.13	74.00	-28.87	Peak
2390.00	49.88	28.80	3.13	35.18	46.63	74.00	-27.37	Peak
2410.76	103.25	28.89	3.13	35.20	100.07	74.00	26.07	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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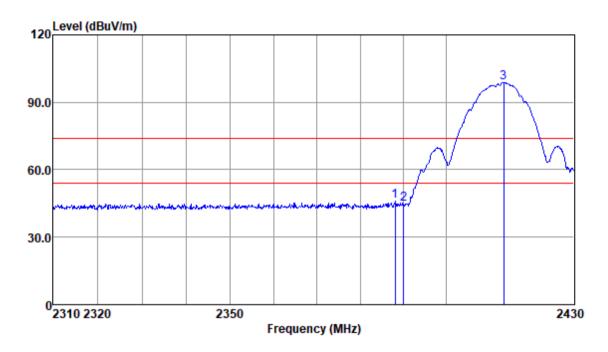
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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



## Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	<b>Emission</b>	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.03	49.36	28.80	3.13	35.18	46.11	74.00	-27.89	Peak
2390.00	48.02	28.80	3.13	35.18	44.77	74.00	-29.23	Peak
2413.44	101.98	28.90	3.13	35.20	98.81	74.00	24.81	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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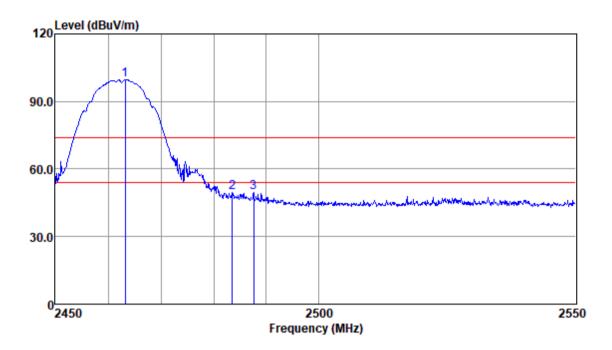
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.17	102.72	29.05	3.16	35.24	99.69	74.00	25.69	Peak
2483.50	52.40	29.09	3.20	35.26	49.43	74.00	-24.57	Peak
2487.63	52.35	29.09	3.23	35.26	49.41	74.00	-24.59	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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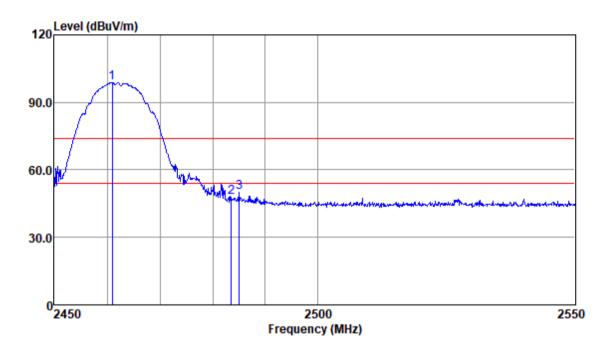
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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



### Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.90	101.74	29.05	3.16	35.24	98.71	74.00	24.71	Peak
2483.50	50.95	29.09	3.20	35.26	47.98	74.00	-26.02	Peak
2485.04	52.85	29.09	3.20	35.26	49.88	74.00	-24.12	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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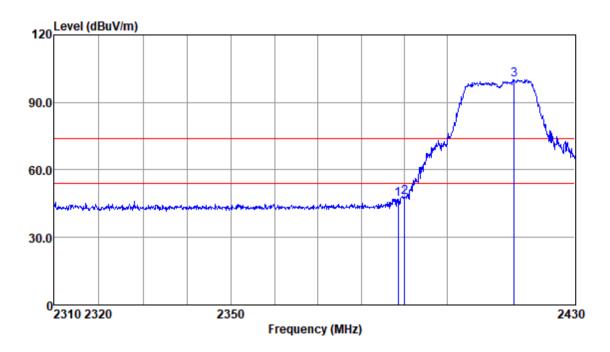
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.52	50.31	28.80	3.13	35.18	47.06	74.00	-26.94	Peak
2390.00	51.13	28.80	3.13	35.18	47.88	74.00	-26.12	Peak
2415.64	103.27	28.90	3.13	35.20	100.10	74.00	26.10	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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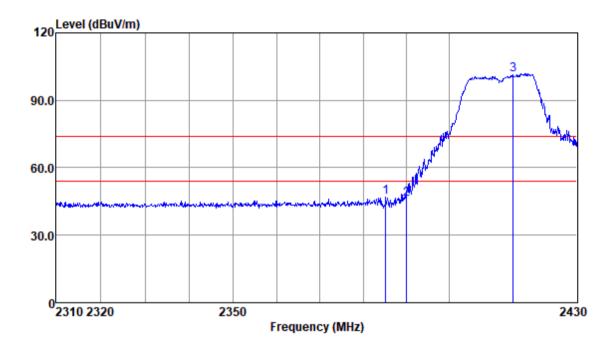
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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.13	50.26	28.80	3.14	35.18	47.02	74.00	-26.98	Peak
2390.00	49.18	28.80	3.13	35.18	45.93	74.00	-28.07	Peak
2414.91	104.69	28.90	3.13	35.20	101.52	74.00	27.52	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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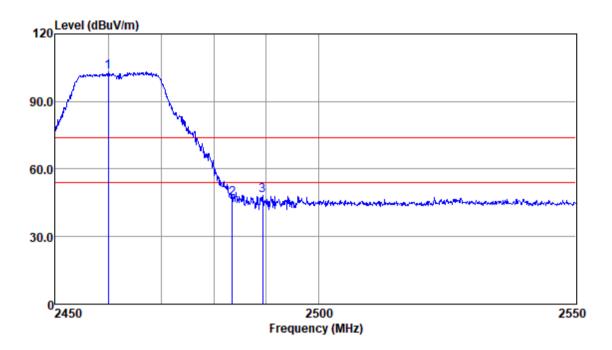
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.02	105.99	29.04	3.16	35.24	102.95	74.00	28.95	Peak
2483.50	49.88	29.09	3.20	35.26	46.91	74.00	-27.09	Peak
2489.32	51.40	29.10	3.23	35.26	48.47	74.00	-25.53	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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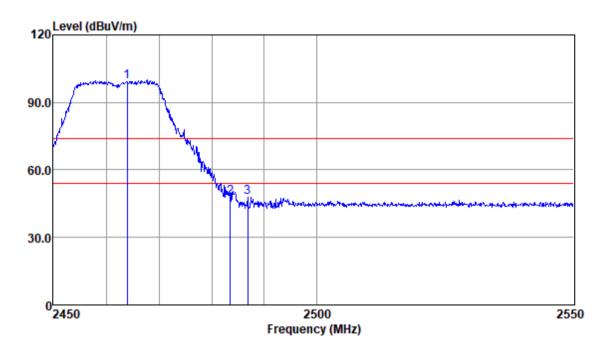
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



### Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.96	102.44	29.05	3.16	35.24	99.41	74.00	25.41	Peak
2483.50	50.65	29.09	3.20	35.26	47.68	74.00	-26.32	Peak
2486.83	50.76	29.09	3.20	35.26	47.79	74.00	-26.21	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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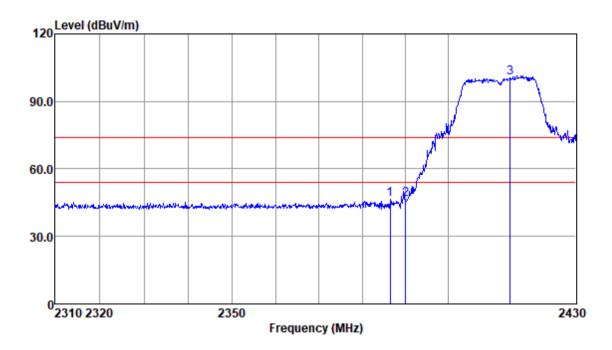
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.46	49.83	28.80	3.13	35.18	46.58	74.00	-27.42	Peak
2390.00	49.73	28.80	3.13	35.18	46.48	74.00	-27.52	Peak
2414.42	103.57	28.90	3.13	35.20	100.40	74.00	26.40	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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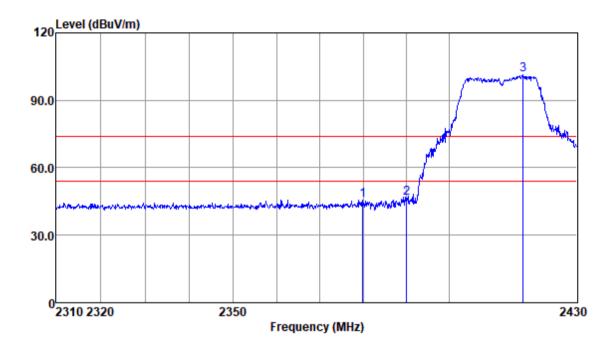
t (86-21) 61915666 f (86-21) 61915678 www.sgsgroup.com.cn t (86-21) 61915666 f (86-21) 61915678 sgs.china@sgs.com



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : VERTICAL

Fred					Emission Level			Remark
1164	LCVCI	1 ac coi	2033	i ac coi	LCVCI	LINC	LIMIT	remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2379.82	48.89	28.76	3.14	35.17	45.62	74.00	-28.38	Peak
2390.00	49.78	28.80	3.13	35.18	46.53	74.00	-27.47	Peak
2417.24	104.42	28.90	3.13	35.20	101.25	74.00	27.25	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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t (86-21) 61915666

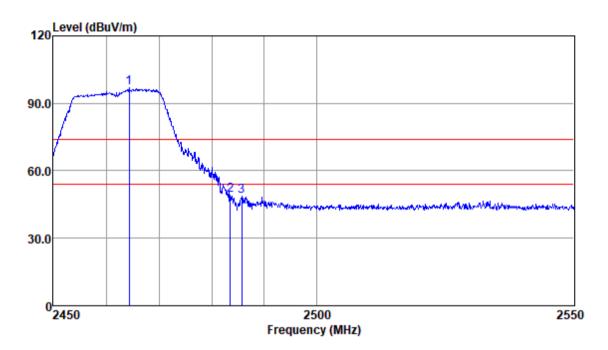
f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2464.35	100.07	29.05	3.16	35.24	97.04	74.00	23.04	Peak
2483.50	51.99	29.09	3.20	35.26	49.02	74.00	-24.98	Peak
2485.74	51.65	29.09	3.20	35.26	48.68	74.00	-25.32	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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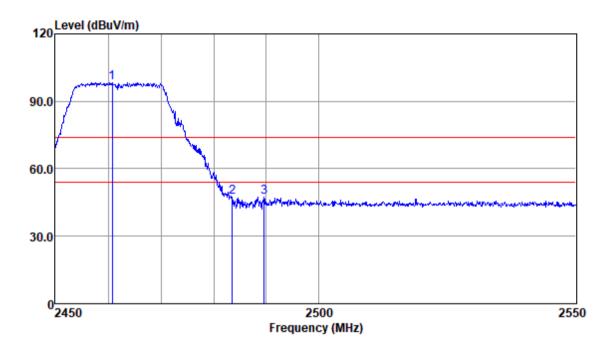
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



### Antenna Polarity : VERTICAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.71	101.52	29.05	3.16	35.24	98.49	74.00	24.49	Peak
2483.50	50.41	29.09	3.20	35.26	47.44	74.00	-26.56	Peak
2489.62	50.52	29.10	3.23	35.26	47.59	74.00	-26.41	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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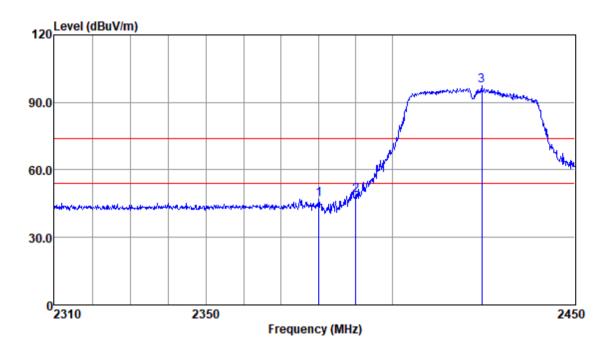
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2380.09	50.24	28.76	3.14	35.17	46.97	74.00	-27.03	Peak
2390.00	51.89	28.80	3.13	35.18	48.64	74.00	-25.36	Peak
2424.33	100.40	28.92	3.13	35.21	97.24	74.00	23.24	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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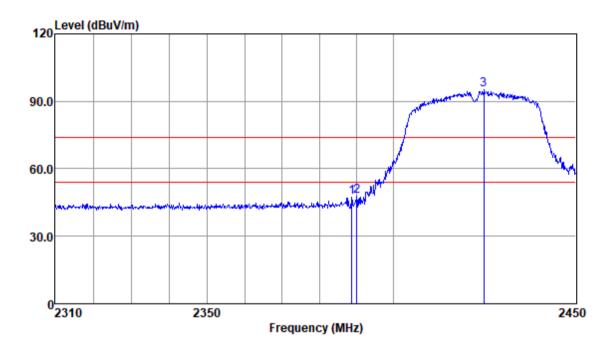
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



### Antenna Polarity : VERTICAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.65	50.84	28.80	3.13	35.18	47.59	74.00	-26.41	Peak
2390.00	51.23	28.80	3.13	35.18	47.98	74.00	-26.02	Peak
2424.62	98.31	28.92	3.13	35.21	95.15	74.00	21.15	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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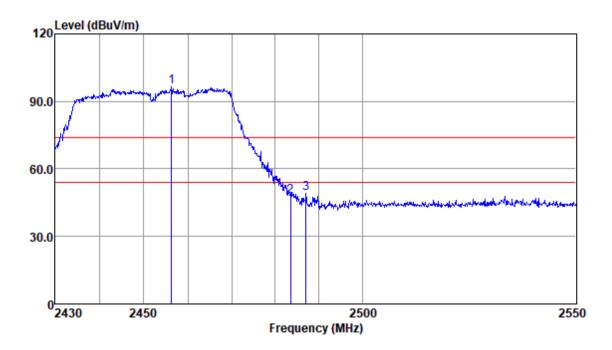
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2456.26	99.40	29.04	3.16	35.24	96.36	74.00	22.36	Peak
2483.50	50.76	29.09	3.20	35.26	47.79	74.00	-26.21	Peak
2487.00	51.93	29.09	3.20	35.26	48.96	74.00	-25.04	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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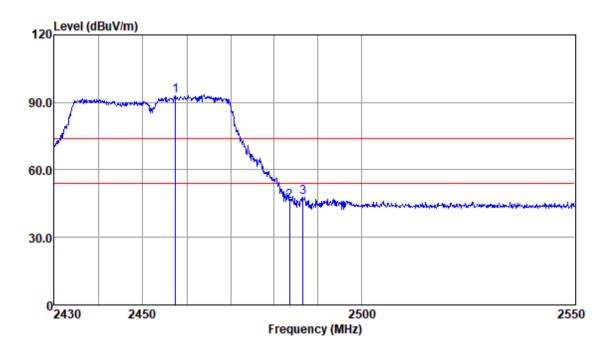
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



#### Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2457.45	96.10	29.04	3.16	35.24	93.06	74.00	19.06	Peak
2483.50	49.24	29.09	3.20	35.26	46.27	74.00	-27.73	Peak
2486.64	50.99	29.09	3.20	35.26	48.02	74.00	-25.98	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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#### 7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

#### Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
960-1000	500	3		

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

#### 7.7.2 Test Mode Description

	7.7.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							



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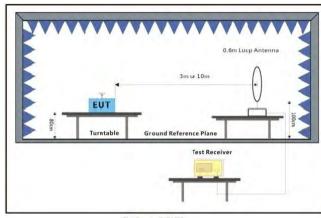
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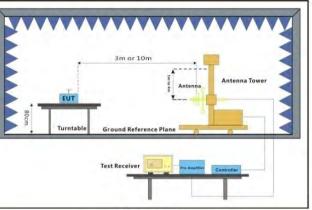


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#### 7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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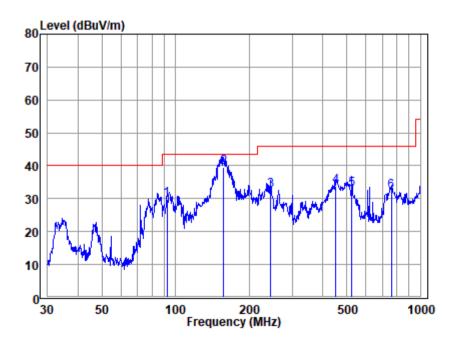
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Test Mode: 03; Polarity: Horizontal



Antenna Polarity : Horizontal EUT/Project :0424HS Test mode :03

	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2 3 4	92.14 157.01 245.09 452.72	57.37 50.71 45.33	8.02 13.20 11.72 17.12	3.18 4.30	33.60 33.47 33.12 33.00	32.49 33.75	43.50 46.00 46.00	-13.51 -12.25	QP QP QP
	526.40 760.70		18.31 22.35	5.32 6.39	33.00 32.66	32.91 32.14		-13.09 -13.86	-

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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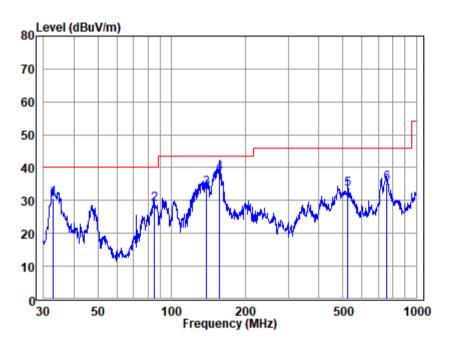
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Test Mode: 03; Polarity: Vertical



Antenna Polarity : Vertical EUT/Project :0424HS Test mode :03

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2 84.7 3 139.3 4 157.0 5 526.4	5 50.79 0 52.07 6 52.15 1 56.05 0 42.82 9 39.32	8.39 12.71 13.20 18.31	0.94 1.85 2.46 2.48 5.32 6.40	33.70 33.55 33.52 33.47 33.00 32.68	30.59 28.76 33.80 38.26 33.45 35.36	40.00 43.50 43.50 46.00	-9.41 -11.24 -9.70 -5.24 -12.55	QP QP QP QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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#### 7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.8.1 E.U.T. Operation

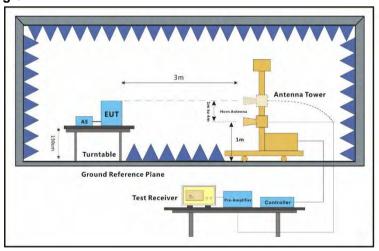
Operating Environment:

Humidity: 61.9 % RH Temperature: Atmospheric Pressure: 1010 mbar 23.8 °C

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.8.3 Test Setup Diagram





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#### 7.8.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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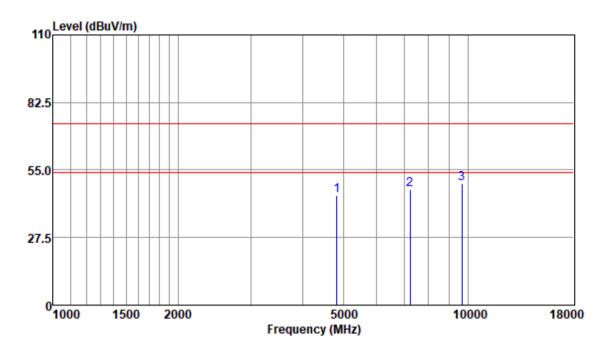
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	43.23	33.60	4.58	36.79	44.62	74.00	-29.38	Peak
7236.00	39.71	36.29	6.64	35.50	47.14	74.00	-26.86	Peak
9648.00	36.60	37.71	8.58	33.56	49.33	74.00	-24.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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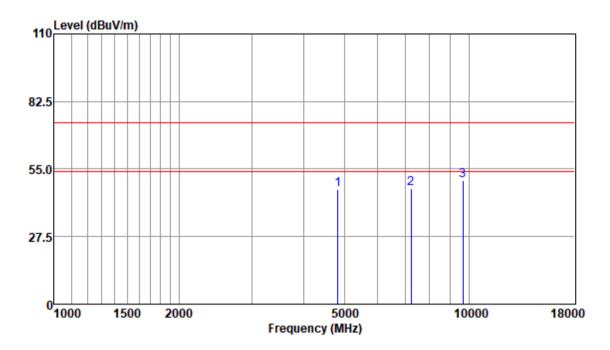
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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	45.13	33.60	4.58	36.79	46.52	74.00	-27.48	Peak
7236.00	39.83	36.29	6.64	35.50	47.26	74.00	-26.74	Peak
9648.00	37.48	37.71	8.58	33.56	50.21	74.00	-23.79	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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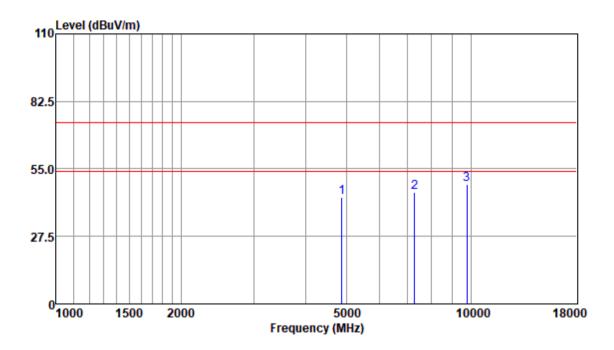
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



### Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.74	33.66	4.73	36.81	43.32	74.00	-30.68	Peak
7311.00	38.13	36.32	6.60	35.44	45.61	74.00	-28.39	Peak
9748.00	35.84	37.54	8.69	33.50	48.57	74.00	-25.43	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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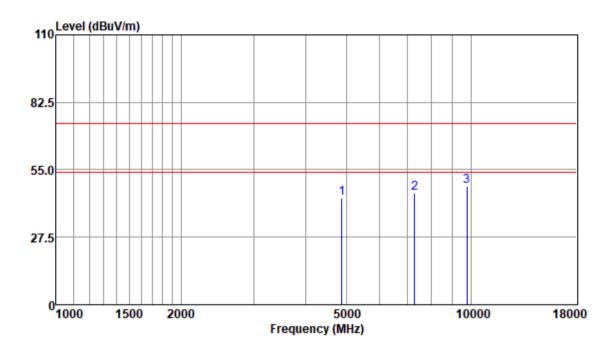
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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



#### Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.94	33.66	4.73	36.81	43.52	74.00	-30.48	Peak
7311.00	38.13	36.32	6.60	35.44	45.61	74.00	-28.39	Peak
9748.00	35.44	37.54	8.69	33.50	48.17	74.00	-25.83	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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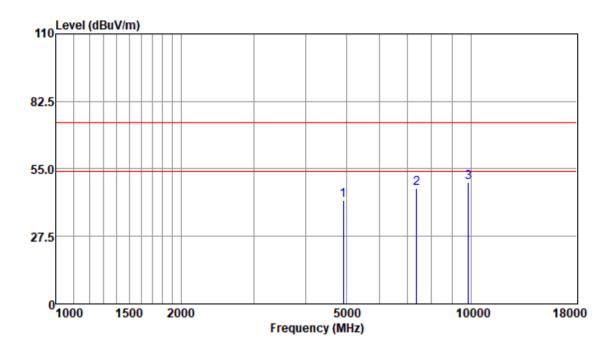
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.55	33.64	4.88	36.82	42.25	74.00	-31.75	Peak
7386.00	39.61	36.36	6.56	35.37	47.16	74.00	-26.84	Peak
9848.00	36.40	37.60	8.78	33.45	49.33	74.00	-24.67	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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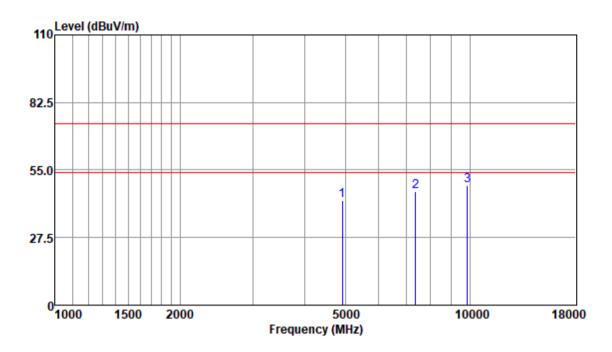
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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



### Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	${\bf Emission}$	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.01	33.64	4.88	36.82	42.71	74.00	-31.29	Peak
7386.00	38.83	36.36	6.56	35.37	46.38	74.00	-27.62	Peak
9848.00	35.76	37.60	8.78	33.45	48.69	74.00	-25.31	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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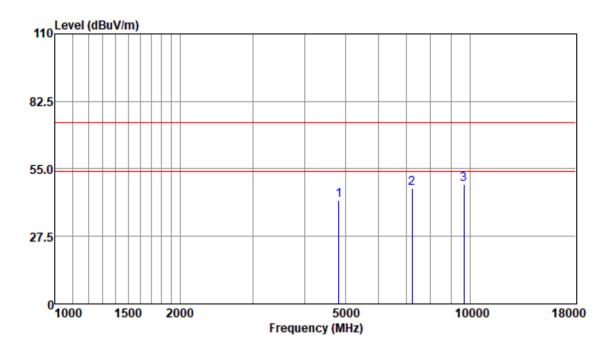
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



Report No.: SHCR230300042403

Page: 50 of 127

Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	${\bf Emission}$	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.77	33.60	4.58	36.79	42.16	74.00	-31.84	Peak
7236.00	39.60	36.29	6.64	35.50	47.03	74.00	-26.97	Peak
9648.00	36.05	37.71	8.58	33.56	48.78	74.00	-25.22	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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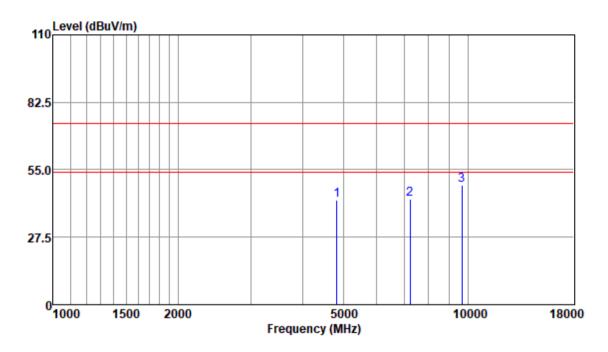
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Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.04	33.60	4.58	36.79	42.43	74.00	-31.57	Peak
7236.00	35.54	36.29	6.64	35.50	42.97	74.00	-31.03	Peak
9648.00	35.82	37.71	8.58	33.56	48.55	74.00	-25.45	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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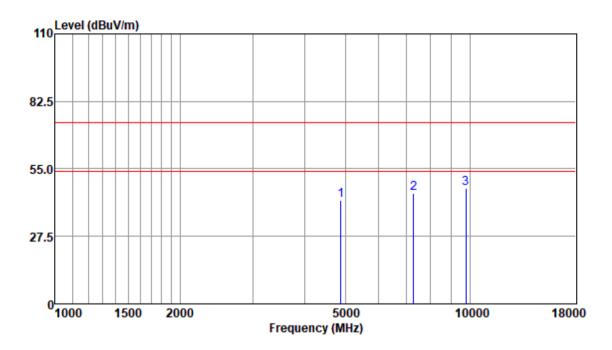
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Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



### Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.44	33.66	4.73	36.81	42.02	74.00	-31.98	Peak
7311.00	37.39	36.32	6.60	35.44	44.87	74.00	-29.13	Peak
9748.00	34.41	37.54	8.69	33.50	47.14	74.00	-26.86	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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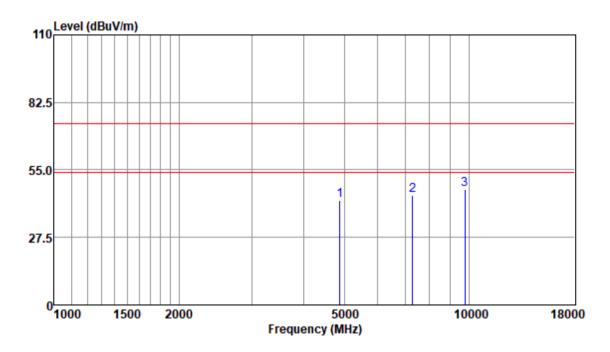
f (86-21) 61915678 f (86-21) 61915678



Report No.: SHCR230300042403

Page: 53 of 127

Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



#### Antenna Polarity : VERTICAL

F					Emission			DI-
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.18	33.66	4.73	36.81	42.76	74.00	-31.24	Peak
7311.00	37.37	36.32	6.60	35.44	44.85	74.00	-29.15	Peak
9748.00	34.38	37.54	8.69	33.50	47.11	74.00	-26.89	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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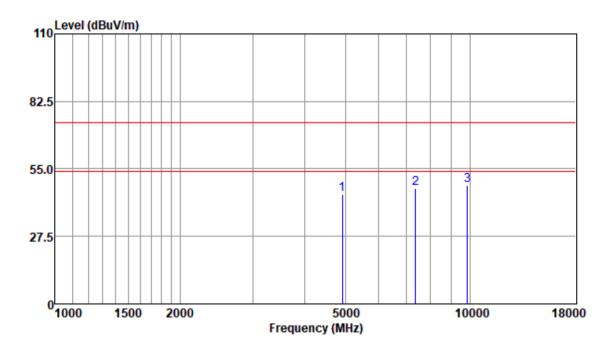
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Report No.: SHCR230300042403

Page: 54 of 127

Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	43.15	33.64	4.88	36.82	44.85	74.00	-29.15	Peak
7386.00	39.42	36.36	6.56	35.37	46.97	74.00	-27.03	Peak
9848.00	35.20	37.60	8.78	33.45	48.13	74.00	-25.87	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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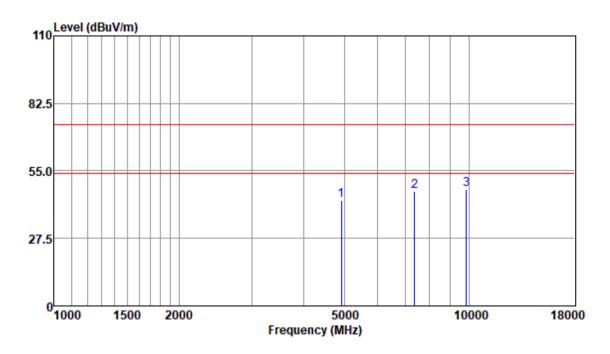
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Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



### Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	${\bf Emission}$	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.38	33.64	4.88	36.82	43.08	74.00	-30.92	Peak
7386.00	39.00	36.36	6.56	35.37	46.55	74.00	-27.45	Peak
9848.00	34.66	37.60	8.78	33.45	47.59	74.00	-26.41	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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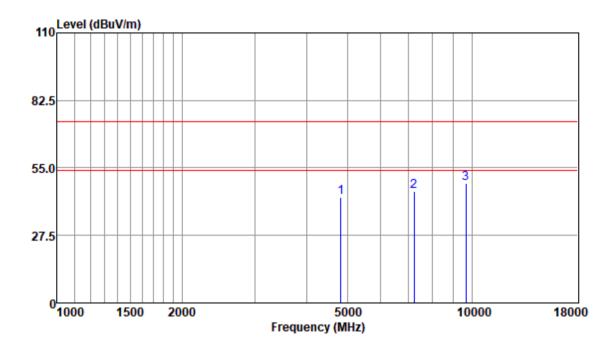
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Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

F					Emission			D I-
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.57	33.60	4.58	36.79	42.96	74.00	-31.04	Peak
7236.00	37.90	36.29	6.64	35.50	45.33	74.00	-28.67	Peak
9648.00	35.98	37.71	8.58	33.56	48.71	74.00	-25.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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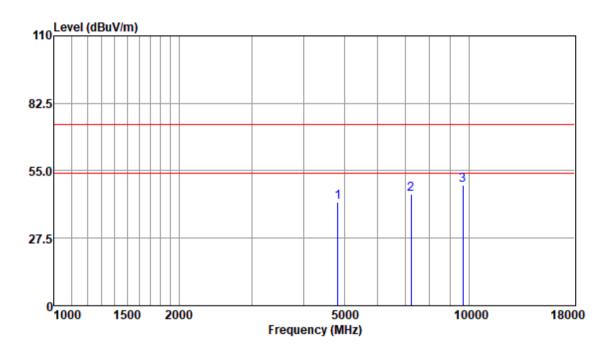
f (86-21) 61915678 f (86-21) 61915678



Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



#### Antenna Polarity : VERTICAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.66	33.60	4.58	36.79	42.05	74.00	-31.95	Peak
7236.00	38.01	36.29	6.64	35.50	45.44	74.00	-28.56	Peak
9648.00	36.39	37.71	8.58	33.56	49.12	74.00	-24.88	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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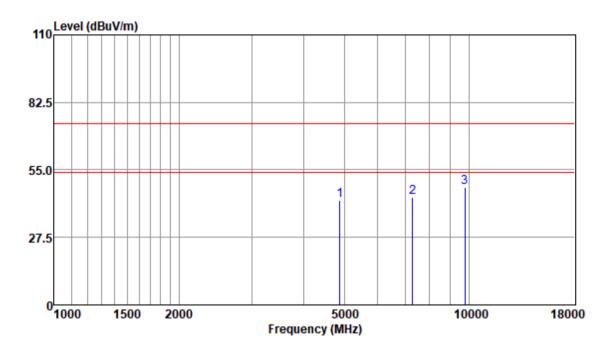
t (86-21) 61915666 f (86-21) 61915678 t (86-21) 61915666 f (86-21) 61915678



Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



#### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.08	33.66	4.73	36.81	42.66	74.00	-31.34	Peak
7311.00	36.26	36.32	6.60	35.44	43.74	74.00	-30.26	Peak
9748.00	35.29	37.54	8.69	33.50	48.02	74.00	-25.98	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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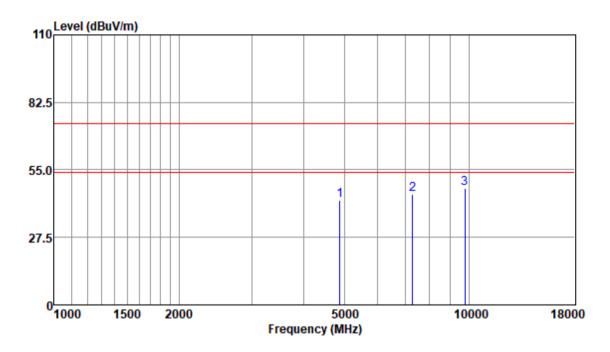
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



#### Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.98	33.66	4.73	36.81	42.56	74.00	-31.44	Peak
7311.00	37.71	36.32	6.60	35.44	45.19	74.00	-28.81	Peak
9748.00	34.80	37.54	8.69	33.50	47.53	74.00	-26.47	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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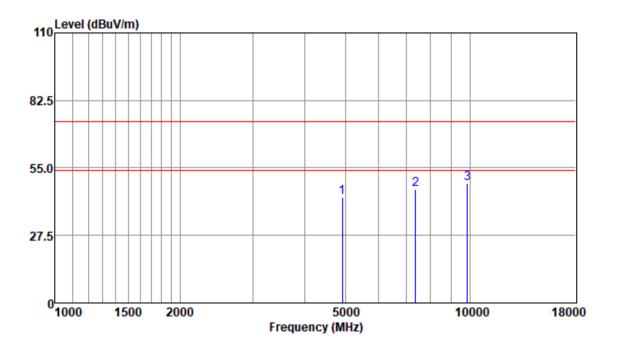
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



### Antenna Polarity : HORIZONTAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.44	33.64	4.88	36.82	43.14	74.00	-30.86	Peak
7386.00	38.57	36.36	6.56	35.37	46.12	74.00	-27.88	Peak
9848.00	35.76	37.60	8.78	33.45	48.69	74.00	-25.31	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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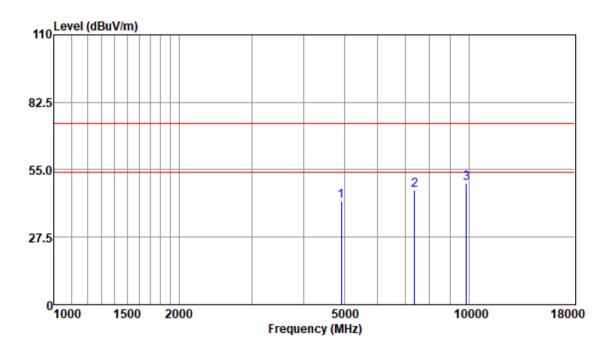
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



#### Antenna Polarity : VERTICAL

Fred					Emission Level			Romank
1164	LEVEL	ractor	LUSS	I ac coi	LEVEI	LINE	LIMIT	Kelliai K
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.56	33.64	4.88	36.82	42.26	74.00	-31.74	Peak
7386.00	39.16	36.36	6.56	35.37	46.71	74.00	-27.29	Peak
9848.00	36.72	37.60	8.78	33.45	49.65	74.00	-24.35	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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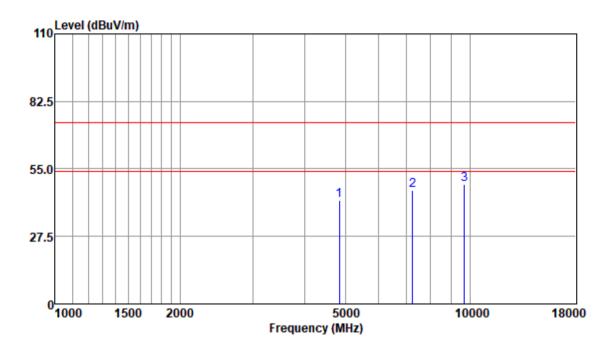
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Report No.: SHCR230300042403

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



### Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	40.84	33.66	4.63	36.80	42.33	74.00	-31.67	Peak
7266.00	38.71	36.30	6.62	35.48	46.15	74.00	-27.85	Peak
9688.00	35.91	37.62	8.61	33.53	48.61	74.00	-25.39	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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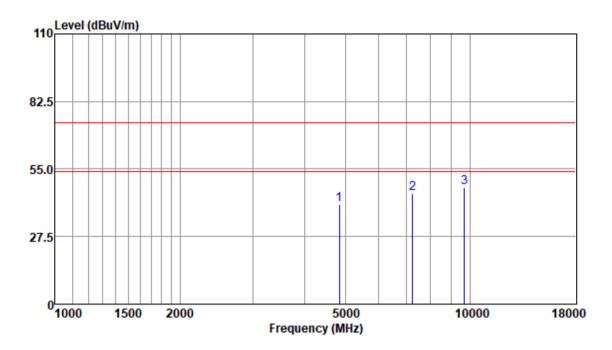
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



### Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	38.96	33.66	4.63	36.80	40.45	74.00	-33.55	Peak
7266.00	37.52	36.30	6.62	35.48	44.96	74.00	-29.04	Peak
9688.00	34.85	37.62	8.61	33.53	47.55	74.00	-26.45	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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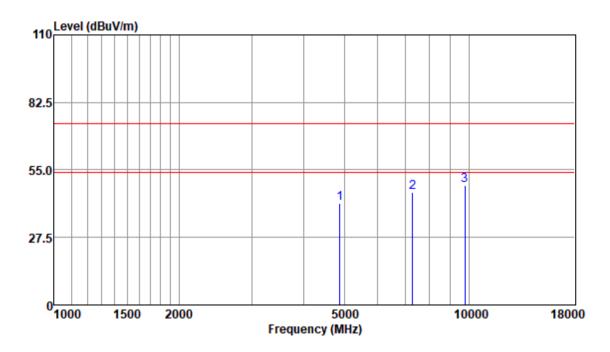
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



#### Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	39.67	33.66	4.73	36.81	41.25	74.00	-32.75	Peak
7311.00	38.53	36.32	6.60	35.44	46.01	74.00	-27.99	Peak
9748.00	35.92	37.54	8.69	33.50	48.65	74.00	-25.35	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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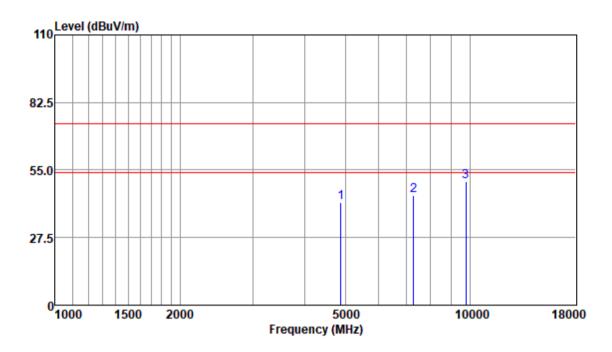
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



### Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.35	33.66	4.73	36.81	41.93	74.00	-32.07	Peak
7311.00	37.03	36.32	6.60	35.44	44.51	74.00	-29.49	Peak
9748.00	37.56	37.54	8.69	33.50	50.29	74.00	-23.71	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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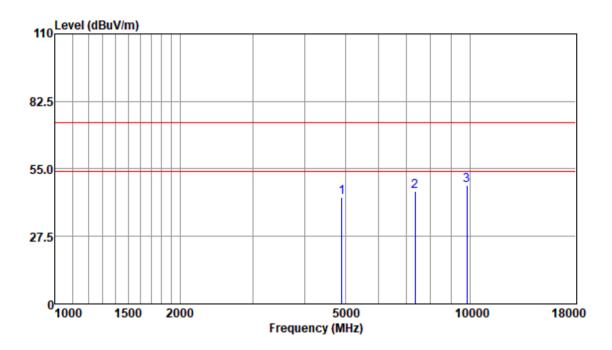
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



### Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	41.81	33.66	4.83	36.81	43.49	74.00	-30.51	Peak
7356.00	38.23	36.35	6.58	35.41	45.75	74.00	-28.25	Peak
9808.00	35.35	37.57	8.74	33.47	48.19	74.00	-25.81	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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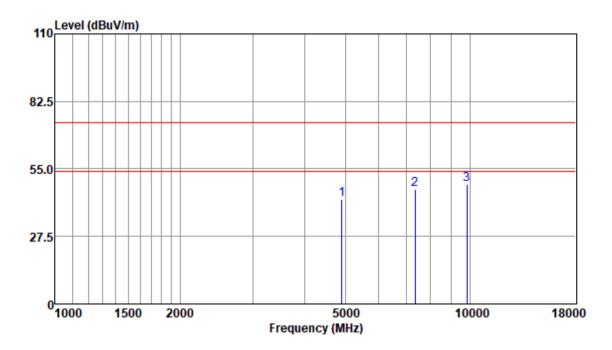
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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



### Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	41.01	33.66	4.83	36.81	42.69	74.00	-31.31	Peak
7356.00	39.00	36.35	6.58	35.41	46.52	74.00	-27.48	Peak
9808.00	36.05	37.57	8.74	33.47	48.89	74.00	-25.11	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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#### 7.9 99% Bandwidth

RSS-Gen Section 6.7 Test Requirement Test Method: ANSI C63.10 Section 6.9.3

7.9.1 E.U.T. Operation

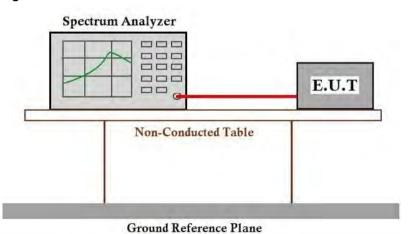
Operating Environment:

Temperature: 23.8 °C Atmospheric Pressure: 1010 mbar Humidity: 61.6 % RH

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram



#### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### 8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SHCR2303000424HS

#### 9 **EUT Constructional Details (EUT Photos)**

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2303000424HS

# 10 Appendix

#### 10.1 Appendix A: DTS Bandwidth

#### 10 1 1 Test Result

10.1.1 165	ı Kesuit						
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	8.040	2408.000	2416.040	≥0.5	PASS
11B	Ant1	2437	8.560	2432.960	2441.520	≥0.5	PASS
		2462	10.000	2457.000	2467.000	≥0.5	PASS
		2412	16.360	2403.840	2420.200	≥0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	≥0.5	PASS
		2462	16.400	2453.840	2470.240	≥0.5	PASS
		2412	17.560	2403.240	2420.800	≥0.5	PASS
11N20SISO	Ant1	2437	17.600	2428.200	2445.800	≥0.5	PASS
		2462	17.560	2453.240	2470.800	≥0.5	PASS
		2422	35.120	2404.480	2439.600	≥0.5	PASS
11N40SISO	Ant1	2437	35.120	2419.480	2454.600	≥0.5	PASS
		2452	35.120	2434.400	2469.520	≥0.5	PASS



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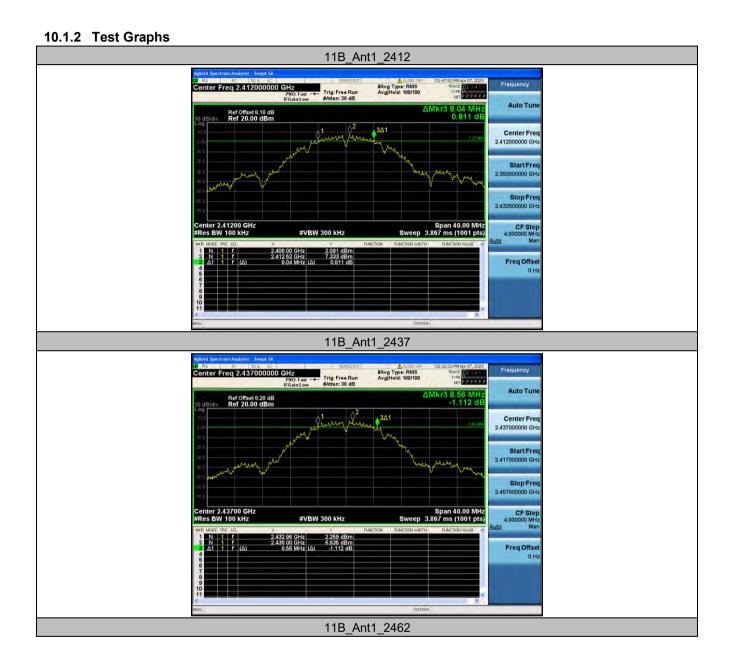
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11G Ant1 2412



11G\_Ant1\_2437



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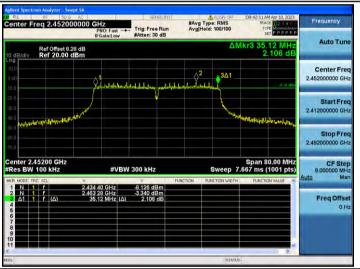


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### 10.2 Appendix B: Occupied Channel Bandwidth

### 10.2.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.050	2405.0133	2419.0633		
		2437	13.359	2430.2576	2443.6166		
		2462	14.716	2454.7783	2469.4943		
	Ant1	2412	17.064	2403.5203	2420.5843		
11G		2437	17.041	2428.4428	2445.4838		
		2462	17.232	2453.5059	2470.7379		
	Ant1	2412	18.128	2402.9843	2421.1123		
11N20SISO		2437	18.007	2428.0034	2446.0104		
		2462	18.268	2452.9605	2471.2285		
11N40SISO	Ant1	2422	36.385	2403.8703	2440.2553		-
		2437	36.110	2418.9937	2455.1037		
		2452	36.602	2433.6694	2470.2714		



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### 10.2.2 Test Graphs





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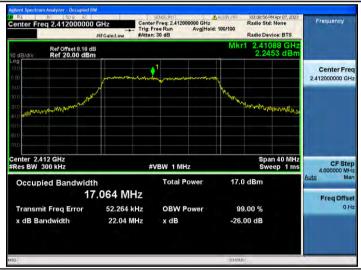


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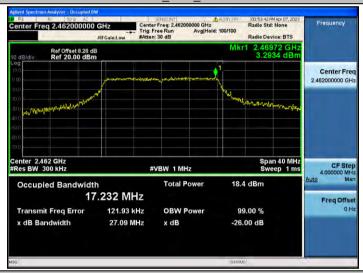


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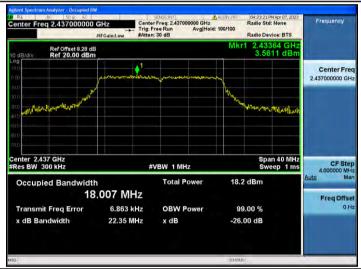


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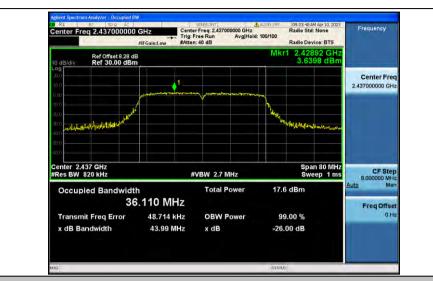
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### 10.3 Appendix C: Maximum conducted output power

### 10.3.1 Test Result

TestMode	Antenna	Channel	Level [dBm]	10Log(1/X) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
	Ant1	2412	15.83	0.10	15.93	≤30.00	PASS
11B		2437	15.63	0.10	15.73	≤30.00	PASS
		2462	16.61	0.10	16.71	≤30.00	PASS
	Ant1	2412	10.43	0.60	11.03	≤30.00	PASS
11G		2437	11.52	0.60	12.12	≤30.00	PASS
		2462	11.66	0.60	12.26	≤30.00	PASS
11N20SISO	Ant1	2412	10.38	0.64	11.02	≤30.00	PASS
		2437	11.51	0.64	12.15	≤30.00	PASS
		2462	11.70	0.64	12.34	≤30.00	PASS
11N40SISO	Ant1	2422	9.03	1.21	10.24	≤30.00	PASS
		2437	9.59	1.21	10.80	≤30.00	PASS
		2452	8.82	1.21	10.03	≤30.00	PASS



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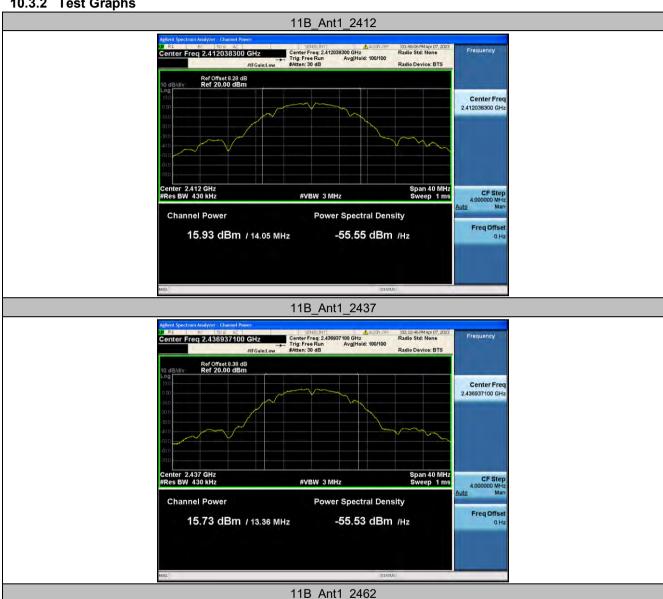
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### 10.3.2 Test Graphs





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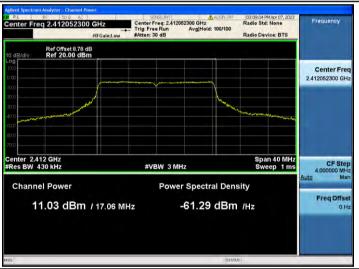


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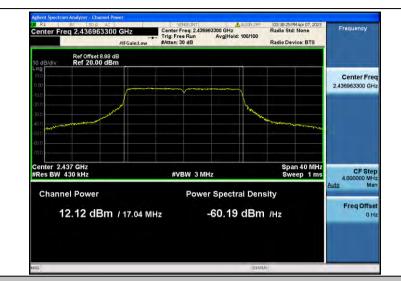
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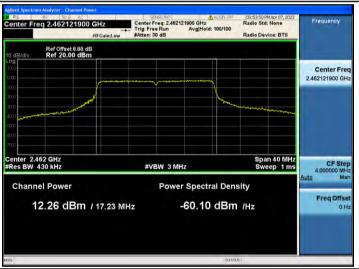


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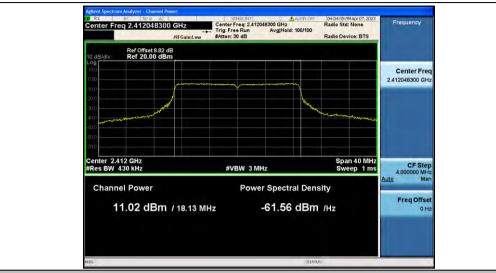
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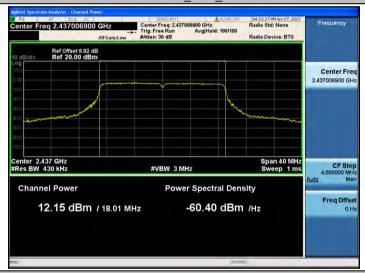


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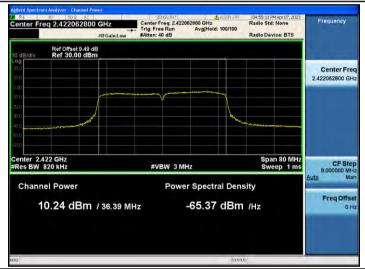


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### 11N40SISO Ant1 2422



11N40SISO Ant1 2437



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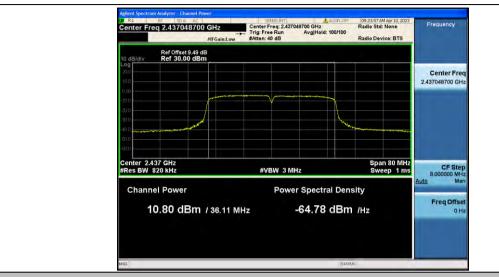
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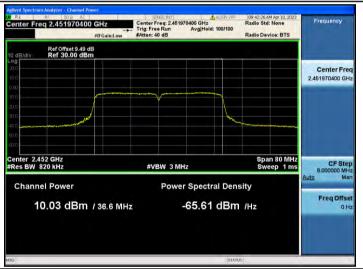


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### 11N40SISO Ant1 2452





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### 10.4 Appendix D: Maximum power spectral density

### 10.4.1 Test Result

TestMode	Antenna	Channel	Level [dBm/3-100kHz]	10Log(1/X) Factor [dB]	PSD [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
		2412	-16.31	0.10	-16.21	≤8.00	PASS
11B	Ant1	2437	-16.58	0.10	-16.48	≤8.00	PASS
		2462	-15.84	0.10	-15.74	≤8.00	PASS
11G	Ant1	2412	-24.56	0.60	-23.96	≤8.00	PASS
		2437	-23.18	0.60	-22.58	≤8.00	PASS
		2462	-23.10	0.60	-22.5	≤8.00	PASS
11N20SISO	Ant1	2412	-24.47	0.64	-23.83	≤8.00	PASS
		2437	-23.54	0.64	-22.9	≤8.00	PASS
		2462	-23.13	0.64	-22.49	≤8.00	PASS
11N40SISO	Ant1	2422	-27.95	1.21	-26.74	≤8.00	PASS
		2437	-28.00	1.21	-26.79	≤8.00	PASS
		2452	-28.67	1.21	-27.46	≤8.00	PASS



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#### 10.4.2 Test Graphs





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11G\_Ant1\_2437



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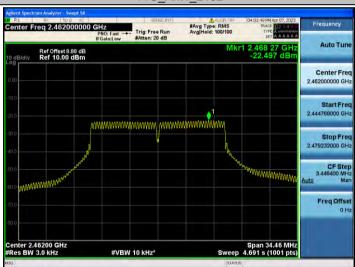


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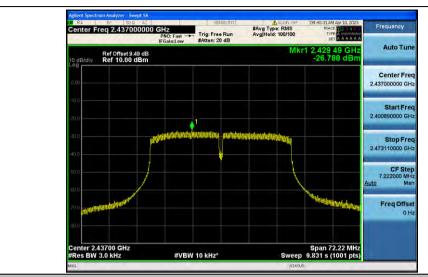
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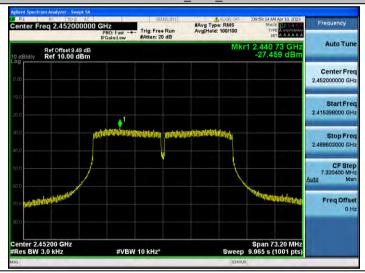


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### 10.5 Appendix E: Band edge measurements

### 10.5.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.75	-27.94	≤-22.25	PASS
		High	2462	7.87	-34.34	≤-22.13	PASS
11G	Ant1	Low	2412	-0.13	-31.99	≤-30.13	PASS
		High	2462	1.43	-36.01	≤-28.58	PASS
11N20SISO	Ant1	Low	2412	0.01	-32.04	≤-29.99	PASS
		High	2462	1.83	-32.22	≤-28.17	PASS
11N40SISO	Ant1	Low	2422	-3.81	-38.45	≤-33.81	PASS
		High	2452	-3.60	-36.95	≤-33.6	PASS



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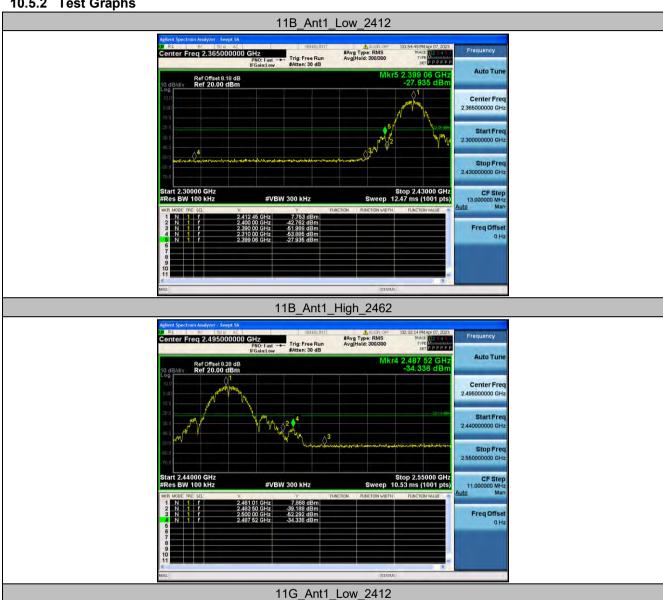
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#### 10.5.2 Test Graphs





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11N20SISO\_Ant1\_Low\_2412



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### 10.6 Appendix F: Conducted Spurious Emission

### 10.6.1 Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
			Reference	6.68	6.68		PASS
		2412	30~1000	6.68	-62.27	≤-23.32	PASS
		2112	1000~26500	6.68	-44.57	≤-23.32	PASS
		2437	Reference	5.97	5.97		PASS
11B	Ant1		30~1000	5.97	-62.29	≤-24.03	PASS
			1000~26500	5.97	-43.94	≤-24.03	PASS
			Reference	5.89	5.89		PASS
		2462	30~1000	5.89	-62.28	≤-24.11	PASS
			1000~26500	5.89	-44.82	≤-24.11	PASS
			Reference	-0.25	-0.25		PASS
		2412	30~1000	-0.25	-62.05	≤-30.25	PASS
			1000~26500	-0.25	-44.3	≤-30.25	PASS
			Reference	0.31	0.31		PASS
11G	Ant1	2437	30~1000	0.31	-61.35	≤-29.69	PASS
			1000~26500	0.31	-44.87	≤-29.69	PASS
		2462	Reference	-2.21	-2.21		PASS
			30~1000	-2.21	-61.5	≤-32.21	PASS
			1000~26500	-2.21	-44.31	≤-32.21	PASS
	Ant1	2412	Reference	-1.40	-1.40		PASS
			30~1000	-1.40	-61.43	≤-31.4	PASS
			1000~26500	-1.40	-44.85	≤-31.4	PASS
		Ant1 2437 2462	Reference	0.16	0.16		PASS
11N20SISO			30~1000	0.16	-61.78	≤-29.84	PASS
			1000~26500	0.16	-44.33	≤-29.84	PASS
			Reference	-0.21	-0.21		PASS
			30~1000	-0.21	-61.15	≤-30.21	PASS
			1000~26500	-0.21	-44	≤-30.21	PASS
		2422	Reference	-4.41	-4.41		PASS
	Ant1		30~1000	-4.41	-61.47	≤-34.41	PASS
			1000~26500	-4.41	-43.42	≤-34.41	PASS
		2437	Reference	-4.55	-4.55		PASS
11N40SISO			30~1000	-4.55	-62.21	≤-34.55	PASS
			1000~26500	-4.55	-44.01	≤-34.55	PASS
		2452	Reference	-4.55	-4.55		PASS
			30~1000	-4.55	-61.16	≤-34.55	PASS
			1000~26500	-4.55	-44.09	≤-34.55	PASS



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#### 10.6.2 Test Graphs





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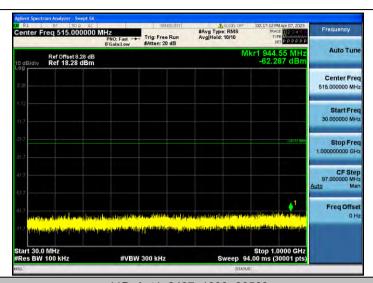
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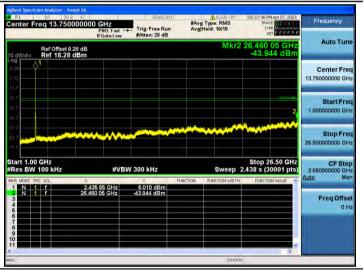


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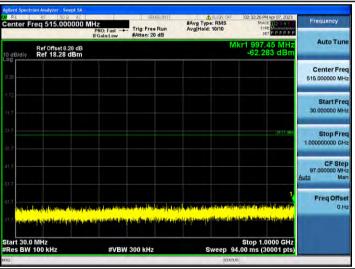


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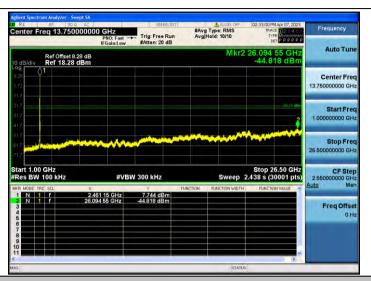
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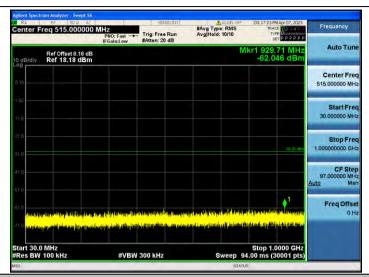
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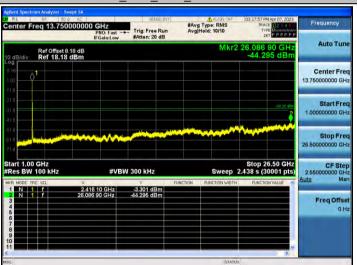


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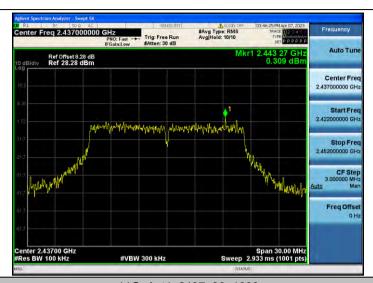
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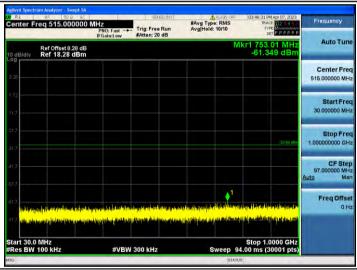


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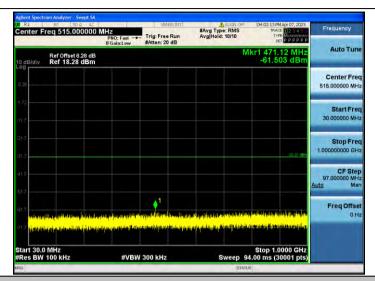
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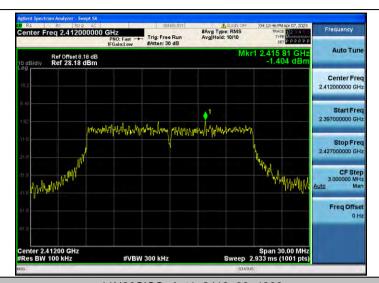
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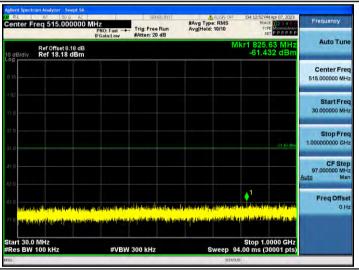


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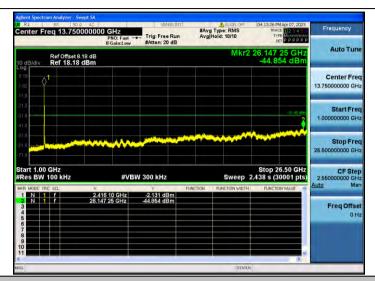
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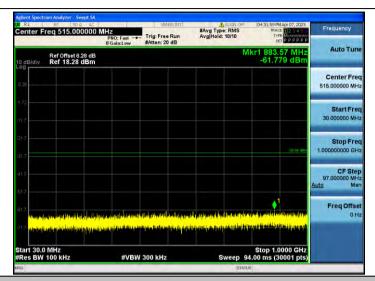
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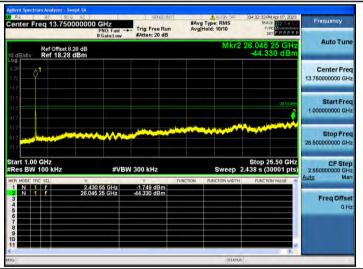


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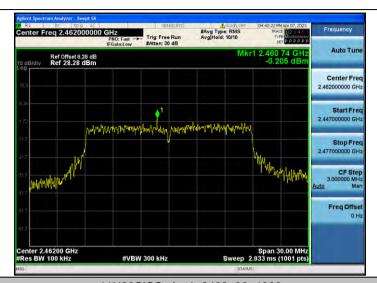
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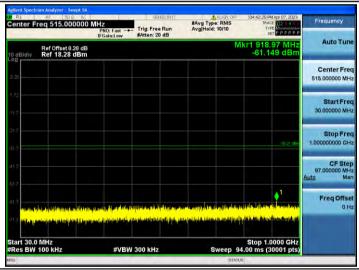


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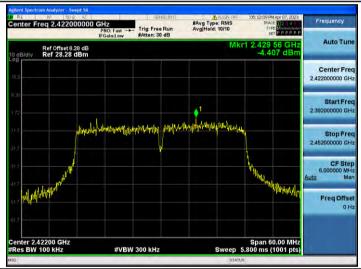


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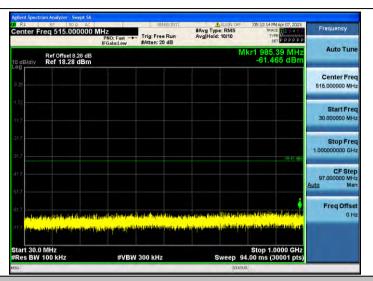
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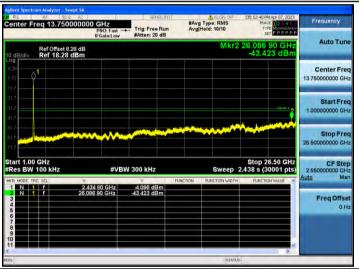


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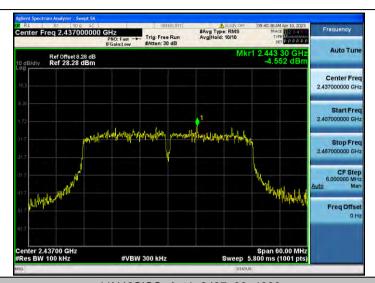
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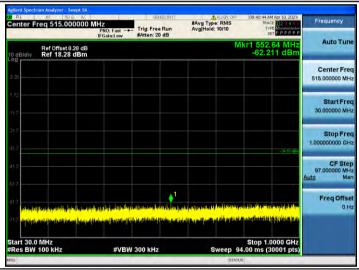


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#### 11N40SISO Ant1 2437 30~1000



11N40SISO Ant1 2437 1000~26500



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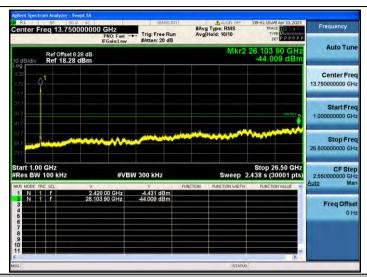
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#### 11N40SISO Ant1 2452 0~Reference



11N40SISO Ant1 2452 30~1000



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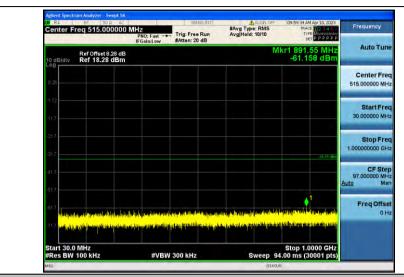
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#### 11N40SISO Ant1 2452 1000~26500





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#### 10.7 Appendix G: Duty Cycle

#### 10.7.1 Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.22	8.42	97.62	-	
		2437	8.22	8.42	97.62		
		2462	8.23	8.43	97.63		
11G	Ant1	2412	1.36	1.56	87.18		
		2437	1.36	1.56	87.18		
		2462	1.35	1.55	87.10		
11N20SISO	Ant1	2412	1.26	1.46	86.30		
		2437	1.26	1.46	86.30		
		2462	1.27	1.47	86.39		
11N40SISO	Ant1	2422	0.62	0.82	75.61		
		2437	0.62	0.82	75.61		
		2452	0.62	0.82	75.61		



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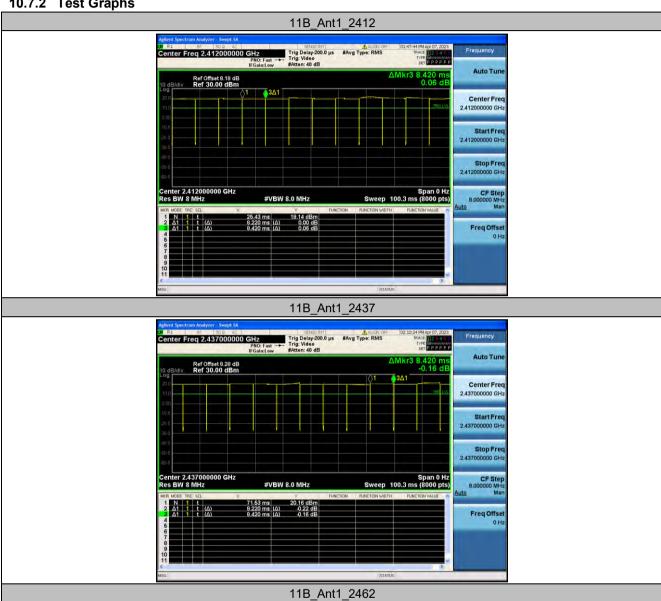
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#### 10.7.2 Test Graphs





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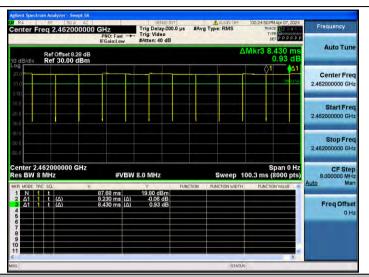
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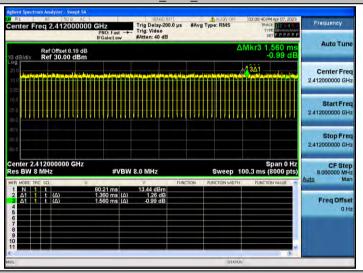


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11G Ant1 2412



11G\_Ant1\_2437



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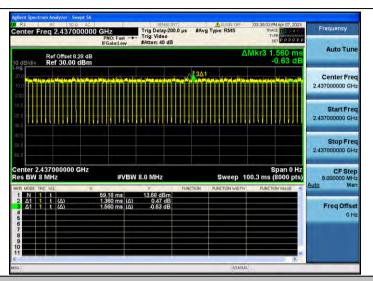
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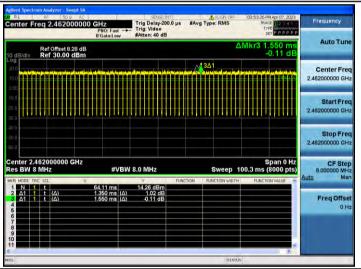


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11G Ant1 2462



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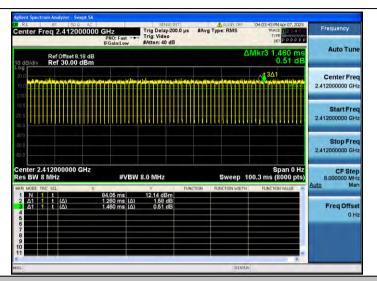
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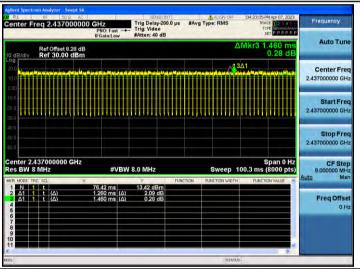


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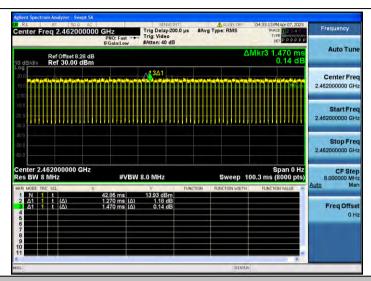
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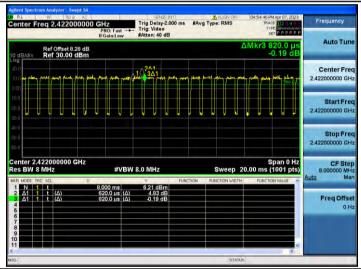


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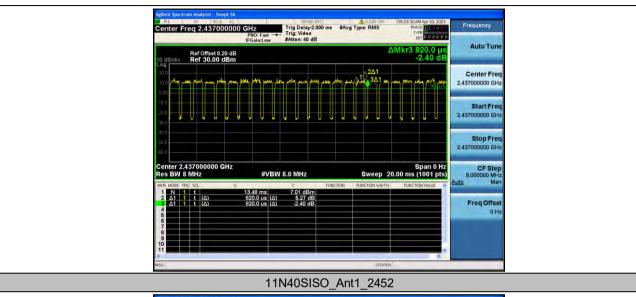
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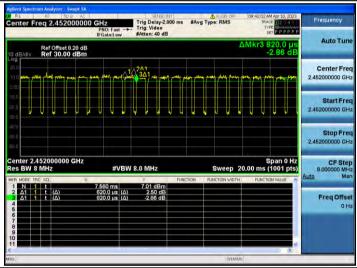
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