

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294904

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# TEST REPORT

**Application No.:** SZCR2309002949AT

Applicant: Shenzhen Xinguodu Technology Co., Ltd.

**Address of Applicant:** 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian

District, Shenzhen, 518040 China

Manufacturer: Shenzhen Xinguodu Technology Co., Ltd.

Address of Manufacturer: 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian

District, Shenzhen, 518040 China

**Equipment Under Test (EUT):** 

**EUT Name: POS Terminal** Model No.: **UN20** 

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: XDQUN20-02

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

**Date of Receipt:** 

2023-09-10 to 2023-09-13 Date of Test:

Date of Issue: 2023-09-13

Pass\* Test Result:

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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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	Chapter	Date	Modifier	Remark			
01		2023-09-13		Original			

Authorized for issue by:		
	Clincent Chen	
	Vincent Chen/Project Engineer	•
	Exic Fu	
	Eric Fu/Reviewer	



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#### **Test Summary** 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum  Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Duty Cycle		ANSI C63.10 (2013) Section 11.6	ANSI C63.10 (2013) Section 11.6	Pass	

### **Declaration of EUT Family Grouping:**

Model No.: UN20

The model UN20 which has two versions UN20W8 and UN20W0.

Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above versions, with only difference on with 4G module or not. The versions were showed on the serial number. Consider the difference, we test the worst case UN20W8 and shows the data in this report. And the 4G module had been certified by (FCC ID: XMR202008EC25AFXD).



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### **General Information**

#### Details of E.U.T. 4.1

Power supply:	Powered by DC adapter:					
	Model: ADS-65HI-12N-3 12048E					
	Input: AC 100-240V, 50/60Hz, Max. 1.5A					
	Output: DC12V, 4.0A, 48.0W					
Cable(s):	DC Connect cable: 13cm					
	DC Cable from adapter with one core: 150cm					
	AC Cable 100cm					
	LTE Antenna 150cm					
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:	1.81dBi					

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
		-				
The EUT has been tested as an independent unit.						

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)



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#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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#### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

### 4.5 Test Facility

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

#### 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 (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz. Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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#### 5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Power Spectrum Density	y				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06



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Attenuator Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature	deli	8838	SEM002-33	2023-07-28	2024-07-27



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Indicator					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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# **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

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.

### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.81dBi.

Antenna location: Refer to internal photos



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#### **Radio Spectrum Matter Test Results** 7

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fraguency of emission/MU-)	Conducted limit(dBµV)			
Frequency of emission(MHz)	Quasi-peak	Average		
0.15-0.5	66 to 56*	56 to 46*		
0.5-5	56	46		
5-30 60		50		
*Decreases with the logarithm of the frequency.				
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz				

### 7.1.1 E.U.T. Operation

Operating Environment:

23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar Temperature:

### 7.1.2 Test Mode Description

7.11.2 103610		
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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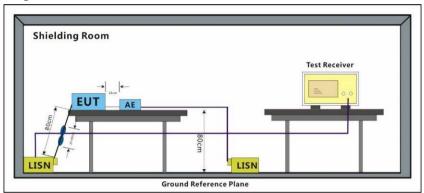


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### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50uH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m. from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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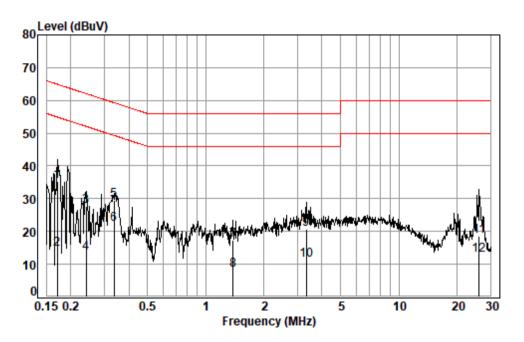


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Test Mode: 03: Line: Live line



: Shielding Room

Condition: Line Job No. : 02949AT

Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1703	0.02	9.62	25.64	35.28	64.94	-29.66	QP
2	0.1703	0.02	9.62	5.03	14.67	54.94	-40.27	Average
3	0.2404	0.03	9.62	17.89	27.54	62.08	-34.54	QP
4	0.2404	0.03	9.62	3.68	13.33	52.08	-38.75	Average
5	0.3356	0.03	9.62	19.84	29.49	59.31	-29.82	QP
6 *	0.3356	0.03	9.62	12.52	22.17	49.31	-27.14	Average
7	1.3884	0.06	9.63	7.51	17.20	56.00	-38.80	QP
8	1.3884	0.06	9.63	-1.41	8.28	46.00	-37.72	Average
9	3.3281	0.08	9.65	10.94	20.67	56.00	-35.33	QP
10	3.3281	0.08	9.65	1.67	11.40	46.00	-34.60	Average
11	26.1393	0.32	10.11	8.07	18.50	60.00	-41.50	QP
12	26.1393	0.32	10.11	2.47	12.90	50.00	-37.10	Average

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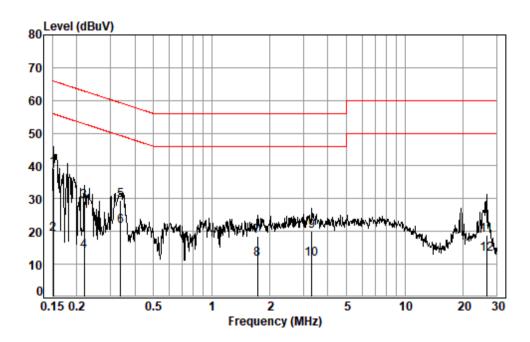


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Test Mode: 03; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02949AT

Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.02	9.62	29.62	39.26	65.91	-26.65	QP
2	0.1516	0.02	9.62	9.49	19.13	55.91	-36.78	Average
3	0.2185	0.03	9.62	19.60	29.25	62.88	-33.63	QP
4	0.2185	0.03	9.62	4.44	14.09	52.88	-38.79	Average
5	0.3374	0.03	9.62	19.75	29.40	59.27	-29.87	QP
6 *	0.3374	0.03	9.62	12.07	21.72	49.27	-27.55	Average
7	1.7253	0.07	9.63	8.83	18.53	56.00	-37.47	QP
8	1.7253	0.07	9.63	1.81	11.51	46.00	-34.49	Average
9	3.3105	0.08	9.66	10.30	20.04	56.00	-35.96	QP
10	3.3105	0.08	9.66	1.79	11.53	46.00	-34.47	Average
11	26.5581	0.32	10.37	8.19	18.88	60.00	-41.12	QP
12	26.5581	0.32	10.37	2.51	13.20	50.00	-36.80	Average

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### 7.2 Conducted Peak 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

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Atmospheric Pressure: 1000 mbar Humidity: 52.3 % RH

### 7.2.2 Toot Mode Deceription

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.						



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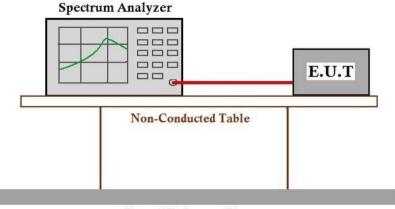


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### 7.2.3 Test Setup Diagram



Ground Reference Plane

#### 7.2.4 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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### 7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

### 7.3.1 E.U.T. Operation

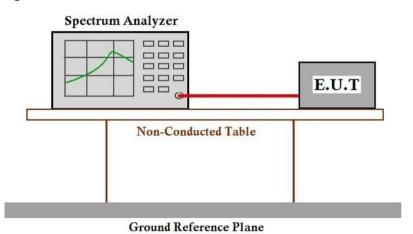
Operating Environment:

Atmospheric Pressure: 1000 mbar Temperature: 23.6 °C Humidity: 52.3 % RH

#### 7.3.2 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.					

### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

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

### 7.4.1 E.U.T. Operation

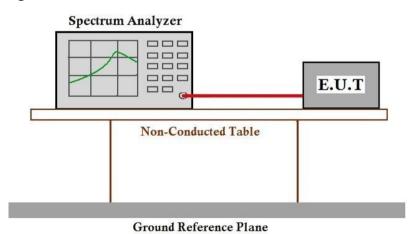
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

### 7.4.2 Test Mode Description

11.12 1.00t meda 2.000ption							
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.					

### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.5 Conducted Band Edges Measurement

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

Limit:

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: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 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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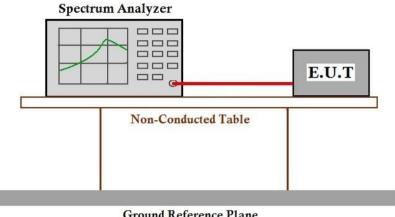


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### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.6 Conducted Spurious Emissions

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

Limit:

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).

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

### 7.6.2 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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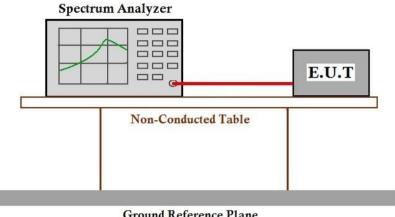


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### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

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

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

Measurement Distance: 3m

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.

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 69.7 % RH Atmospheric Pressure: 1000 mbar

#### 7.7.2 Test Mode Description

This rectilies a person busin								
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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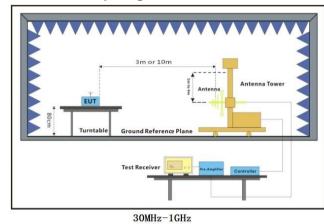


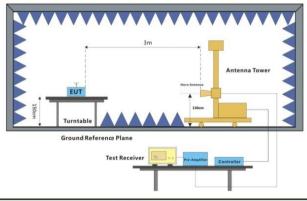
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### 7.7.3 Test Setup Diagram





Above 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. 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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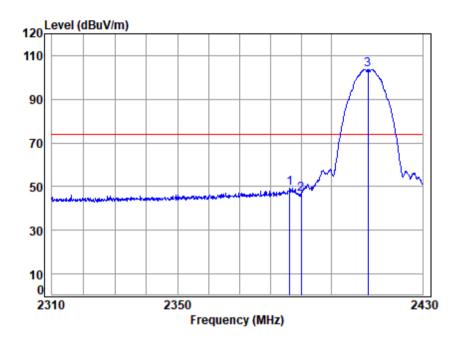


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.340	5.07	28.75	35.64	51.11	49.29	74.00	-24.71	peak
2	2390.000	5.08	28.76	35.64	48.51	46.71	74.00	-27.29	peak
3 q	2412.000	5.10	28.87	35.63	105.31	103.65	74.00	29.65	peak



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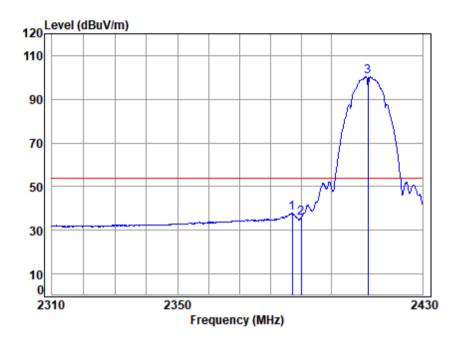


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11B

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.186	5.07	28.75	35.64	39.75	37.93	54.00	-16.07	Average
2	2390.000	5.08	28.76	35.64	37.36	35.56	54.00	-18.44	Average
3 q	2412.000	5.10	28.87	35.63	102.10	100.44	54.00	46.44	Average



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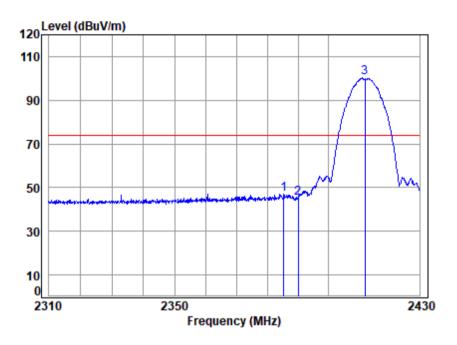


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2412 Band edge Note : 2.4G WIFI 11B

	-		Ant						
	Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Remark
-	MU-		dB/m			dD:///m	dDuV/m		
	МПZ	ub	ub/m	ub	ubuv	ubuv/m	ubuv/m	dB	
1	2385.373	5.07	28.74	35.64	49.00	47.17	74.00	-26.83	Peak
2	2390.000	5.08	28.76	35.64	46.83	45.03	74.00	-28.97	Peak
3 q	2412.000	5.10	28.87	35.63	101.82	100.16	74.00	26.16	Peak



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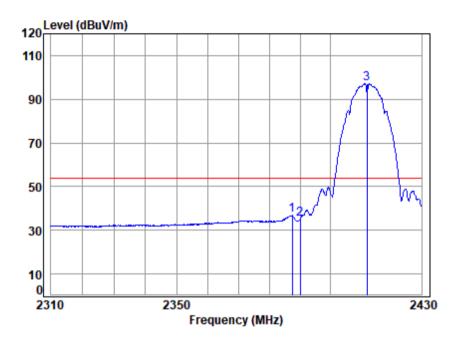


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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.428	5.07	28.75	35.64	38.58	36.76	54.00	-17.24	Average
2	2390.000	5.08	28.76	35.64	36.90	35.10	54.00	-18.90	Average
3 q	2412.000	5.10	28.87	35.63	98.92	97.26	54.00	43.26	Average



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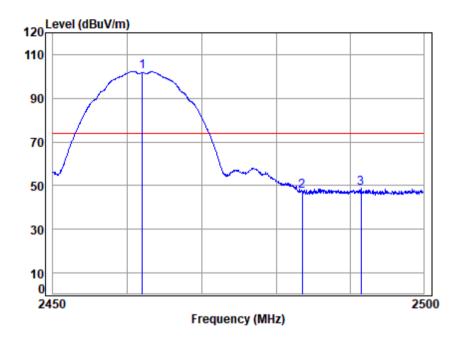


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2462 Band edge Mode Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	29.17	35.62	103.58	102.27	74.00	28.27	peak
2	2483.500	5.16	29.30	35.61	48.79	47.64	74.00	-26.36	peak
3	2491.479	5.17	29.35	35.61	49.73	48.64	74.00	-25.36	peak



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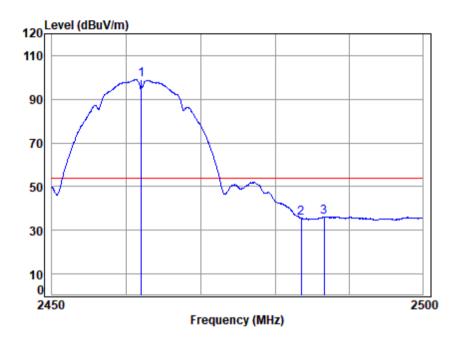


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2462 Band edge Mode Note : 2.4G WIFI 11B

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 (	2462.000	5.14	29.17	35.62	100.33	99.02	54.00	45.02	Average
2	2483.500	5.16	29.30	35.61	36.79	35.64	54.00	-18.36	Average
3	2486.651	5.16	29.32	35.61	37.18	36.05	54.00	-17.95	Average



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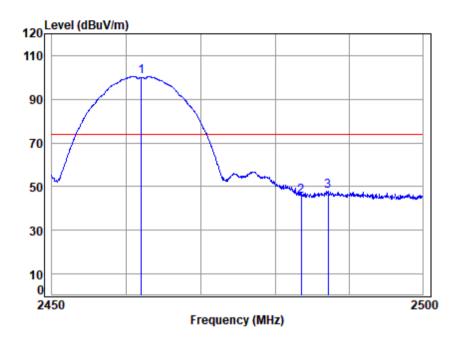


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 2462 Band edge . 2.4G WTFT 11B Note

_	. 2	+Q MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
							-			
q	2462.000	5.14	29.17	35.62	101.85	100.54	74.00	26.54	Peak	
	2483.500	5.16	29.30	35.61	46.89	45.74	74.00	-28.26	Peak	
	2487 154	5 16	29 32	35 61	49 07	47 94	74 00	-26 96	Peak	



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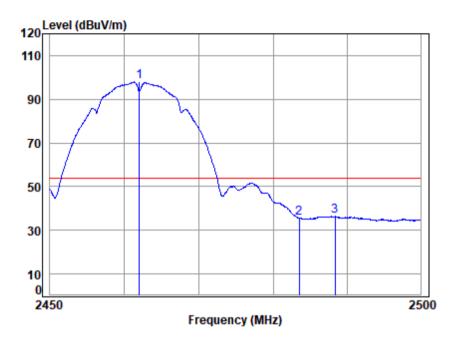


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	29.17	35.62	99.19	97.88	54.00	43.88	Average
2	2483.500	5.16	29.30	35.61	36.85	35.70	54.00	-18.30	Average
3	2488.360	5.16	29.33	35.61	37.50	36.38	54.00	-17.62	Average



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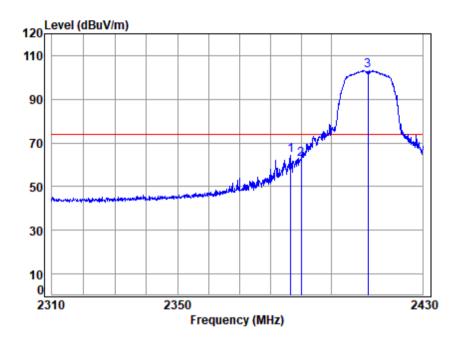


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11G

	<b></b>					1 1			DI-
	Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2386.582	5.07	28.75	35.64	66.32	64.50	74.00	-9.50	peak
2	2390.000	5.08	28.76	35.64	64.19	62.39	74.00	-11.61	peak
3 q	2412.000	5.10	28.87	35.63	104.85	103.19	74.00	29.19	peak



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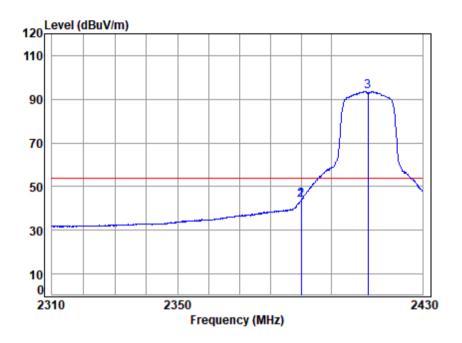


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2389.968	5.08	28.76	35.64	45.40	43.60	54.00	-10.40	Average	
	2390.000	5.08	28.76	35.64	45.40	43.60	54.00	-10.40	Average	
q	2412.000	5.10	28.87	35.63	95.35	93.69	54.00	39.69	Average	



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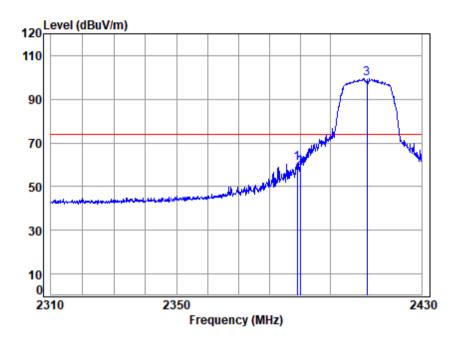


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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2412 Band edge · 2 4G WIFT 11G Note

ote	. 2.	4G WIF	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.000	5.07	28.76	35.64	62.40	60.59	74.00	-13.41	Peak	
2	2390.000	5.08	28.76	35.64	60.37	58.57	74.00	-15.43	Peak	
3 a	2412.000	5.10	28.87	35.63	101.15	99.49	74.00	25.49	Peak	



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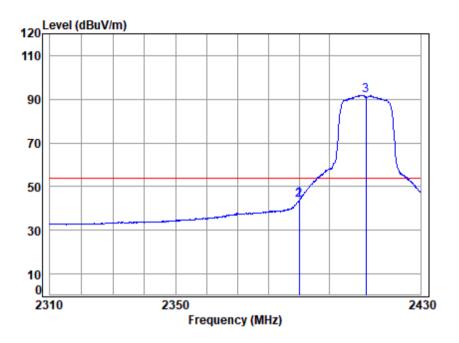


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Test Mode: 03; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11G

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968								_
2390.000								Average
q 2412.000	5.10	28.87	35.63	93.48	91.82	54.00	37.82	Average



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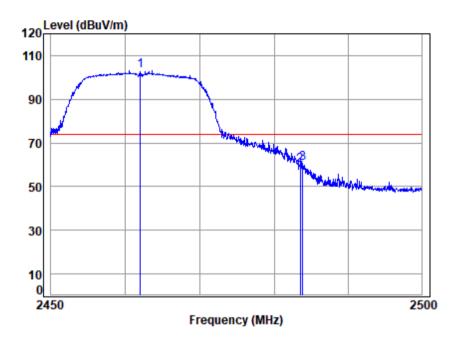


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	29.17	35.62	104.54	103.23	74.00	29.23	peak
2	2483.500	5.16	29.30	35.61	60.96	59.81	74.00	-14.19	peak
3	2483.840	5.16	29.30	35.61	61.88	60.73	74.00	-13.27	peak



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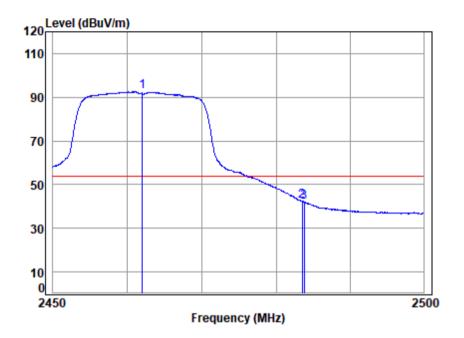


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

: 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
q	2462.000	5.14	29.17	35.62	93.77	92.46	54.00	38.46	Average	
	2483.500	5.16	29.30	35.61	43.49	42.34	54.00	-11.66	Average	
	2483.790	5.16	29.30	35.61	43.14	41.99	54.00	-12.01	Average	



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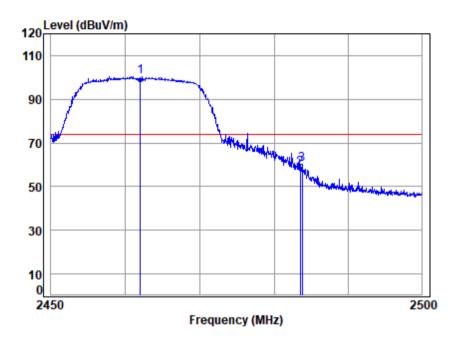


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Frea						Limit Line		Remark	
										_
	MHZ	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q	2462.000	5.14	29.17	35.62	101.65	100.34	74.00	26.34	Peak	
2	2483.500	5.16	29.30	35.61	59.72	58.57	74.00	-15.43	Peak	
;	2483.790	5.16	29.30	35.61	61.21	60.06	74.00	-13.94	Peak	



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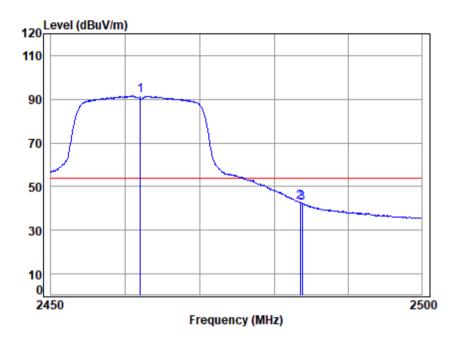


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Report No.: SZCR230900294904

Page: 43 of 126

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	29.17	35.62	92.80	91.49	54.00	37.49	Average
2	2483.500	5.16	29.30	35.61	43.99	42.84	54.00	-11.16	Average
3	2483.790	5.16	29.30	35.61	43.75	42.60	54.00	-11.40	Average



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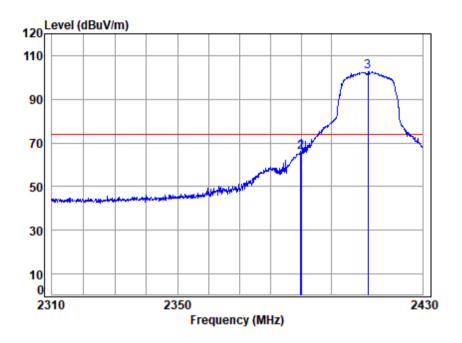


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

			_						
	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2389.847	5.08	28.76	35.64	68.01	66.21	74.00	-7.79	Peak	
2390.000	5.08	28.76	35.64	67.54	65.74	74.00	-8.26	peak	
q 2412.000	5.10	28.87	35.63	104.48	102.82	74.00	28.82	peak	
	MHz 2389.847 2390.000	Freq Loss  MHz dB  2389.847 5.08 2390.000 5.08	Freq Loss Factor  MHz dB dB/m  2389.847 5.08 28.76 2390.000 5.08 28.76	Freq Loss Factor Factor  MHz dB dB/m dB  2389.847 5.08 28.76 35.64 2390.000 5.08 28.76 35.64	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           2389.847         5.08         28.76         35.64         68.01           2390.000         5.08         28.76         35.64         67.54	Freq Loss Factor Factor Level Level           MHz         dB         dB/m         dB         dBuV dBuV/m           2389.847         5.08         28.76         35.64         68.01         66.21           2390.000         5.08         28.76         35.64         67.54         65.74	Freq         Loss Factor Factor         Level         Level         Line           MHz         dB         dB/m         dB         dBuV         dBuV/m         dBuV/m         dBuV/m           2389.847         5.08         28.76         35.64         68.01         66.21         74.00           2390.000         5.08         28.76         35.64         67.54         65.74         74.00	MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2389.847 5.08 28.76 35.64 68.01 66.21 74.00 -7.79 2390.000 5.08 28.76 35.64 67.54 65.74 74.00 -8.26	Freq Loss Factor Factor Level Level Line Limit Remark



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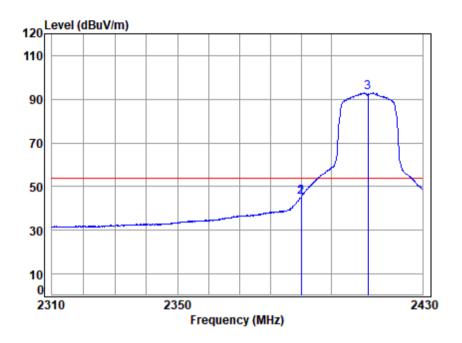


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968	5.08	28.76	35.64	46.89	45.09	54.00	-8.91	Average
2390.000	5.08	28.76	35.64	46.89	45.09	54.00	-8.91	Average
2412.000	5.10	28.87	35.63	94.57	92.91	54.00	38.91	Average
	MHz 2389.968 2390.000	Freq Loss  MHz dB  2389.968 5.08 2390.000 5.08	Freq         Loss Factor           MHz         dB         dB/m           2389.968         5.08         28.76           2390.000         5.08         28.76	Freq         Loss         Factor         Factor           MHz         dB         dB/m         dB           2389.968         5.08         28.76         35.64           2390.000         5.08         28.76         35.64	Freq         Loss         Factor         Factor         Level           MHz         dB         dB/m         dB         dBuV           2389.968         5.08         28.76         35.64         46.89           2390.000         5.08         28.76         35.64         46.89	Freq         Loss         Factor         Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           2389.968         5.08         28.76         35.64         46.89         45.09           2390.000         5.08         28.76         35.64         46.89         45.09	Freq         Loss Factor         Factor         Level         Level         Line           MHz         dB         dB/m         dB dBuV         dBuV/m         dBuV/m         dBuV/m           2389.968         5.08         28.76         35.64         46.89         45.09         54.00           2390.000         5.08         28.76         35.64         46.89         45.09         54.00	2389.968 5.08 28.76 35.64 46.89 45.09 54.00 -8.91



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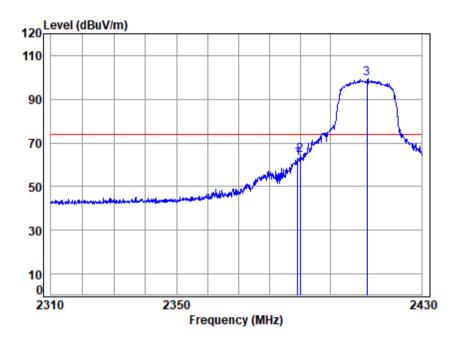


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11N20

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.242	5.07	28.76	35.64	64.70	62.89	74.00	-11.11	Peak	
2	2390.000	5.08	28.76	35.64	66.34	64.54	74.00	-9.46	Peak	
q	2412.000	5.10	28.87	35.63	101.10	99.44	74.00	25.44	Peak	



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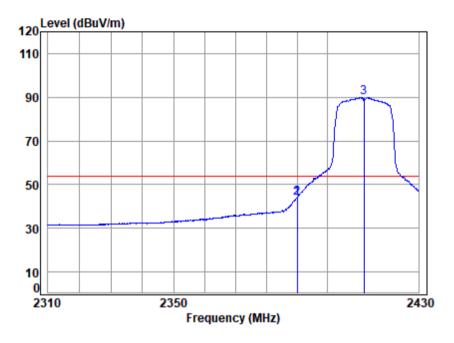


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2412 Band edge Mode Note : 2.4G WIFI 11N20

	Erea			Preamp Factor					Romank	
						Level			Nelliai K	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.968	5.08	28.76	35.64	45.75	43.95	54.00	-10.05	Average	
	2390.000	5.08	28.76	35.64	45.75	43.95	54.00	-10.05	Average	
q	2412.000	5.10	28.87	35.63	91.46	89.80	54.00	35.80	Average	



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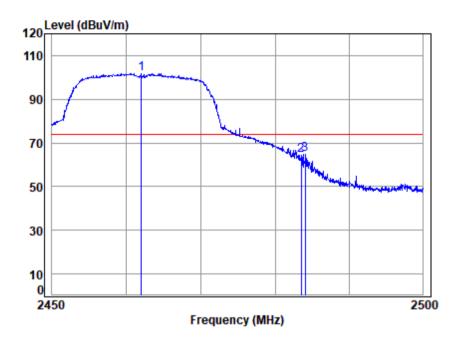


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2462 Band edge Mode Note : 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							7		
1 q	2462.000	5.14	29.1/	35.62	103.24	101.93	/4.00	27.93	peak
2	2483.500	5.16	29.30	35.61	65.66	64.51	74.00	-9.49	peak
3	2484.091	5.16	29.31	35.61	65.87	64.73	74.00	-9.27	peak



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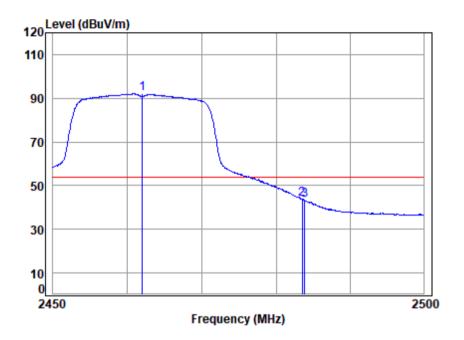


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2462 Band edge Mode Note : 2.4G WIFI 11N20

					_						
		Fred			Preamp Factor					Remark	
		11.64	2033	, ac coi	i de coi	LCVCI	LCVCI	LINC	LIMIC	Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2462.000	5.14	29.17	35.62	93.32	92.01	54.00	38.01	Average	
2		2483.500	5.16	29.30	35.61	44.74	43.59	54.00	-10.41	Average	
3		2483.840	5.16	29.30	35.61	44.38	43.23	54.00	-10.77	Average	



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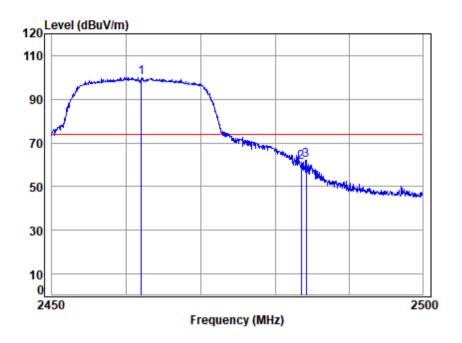


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 Band edge Note · 2 4G WIFT 11N20

Le	. 2.4	4G MIL	T TTM2	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
							•			
q	2462.000	5.14	29.17	35.62	101.15	99.84	74.00	25.84	Peak	
	2483.500									
}	2484,191	5.16	29.31	35.61	63.21	62.07	74.00	-11.93	Peak	



1 2

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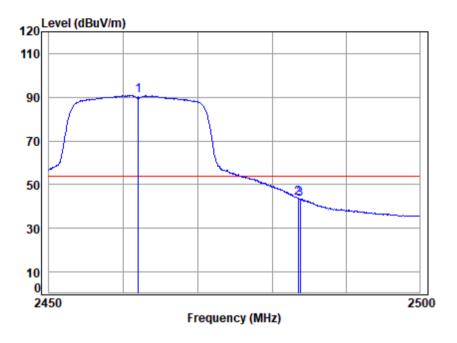


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 Band edge Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.000	5.14	29.17	35.62	92.06	90.75	54.00	36.75	Average
2	2483.500	5.16	29.30	35.61	44.93	43.78	54.00	-10.22	Average
3	2483.790	5.16	29.30	35.61	44.68	43.53	54.00	-10.47	Average



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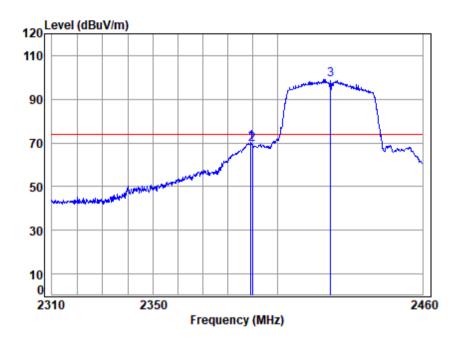


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2422 Band edge Mode Note : 2.4G WIFI 11N40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.376	5.07	28.76	35.64	71.87	70.06	74.00	-3.94	peak
2	2390.000	5.08	28.76	35.64	70.96	69.16	74.00	-4.84	peak
3 q	2422.000	5.10	28.93	35.63	100.58	98.98	74.00	24.98	peak



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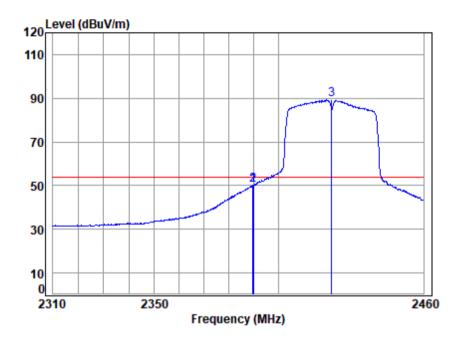


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2422 Band edge Mode Note : 2.4G WIFI 11N40

				_					
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.08	28.76	35.64	51.89	50.09	54.00	-3.91	Average
2	2390.000	5.08	28.76	35.64	52.10	50.30	54.00	-3.70	Average
3 q	2422.000	5.10	28.93	35.63	90.93	89.33	54.00	35.33	Average



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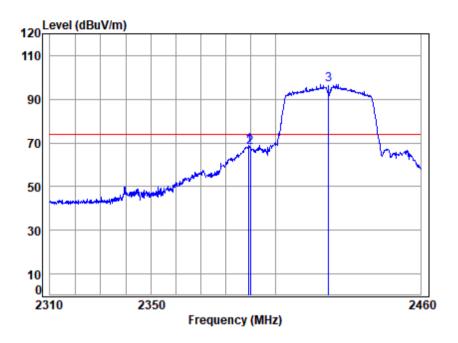


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2422 Band edge Mode Note : 2.4G WIFI 11N40

	Frea						Limit Line		Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	2202 276	F 07	20.76	35.64	70 55	60.74	74.00	F 06	D 1
1	2389.376	5.07	28.76	35.64	/0.55	68.74	74.00	-5.26	Реак
2	2390.000	5.08	28.76	35.64	69.63	67.83	74.00	-6.17	Peak
3 q	2422.000	5.10	28.93	35.63	98.47	96.87	74.00	22.87	Peak



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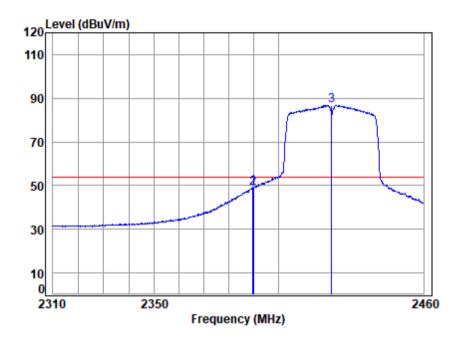


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2422 Band edge Mode Note : 2.4G WIFI 11N40

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.08	28.76	35.64	50.88	49.08	54.00	-4.92	Average
2	2390.000	5.08	28.76	35.64	50.66	48.86	54.00	-5.14	Average
3 q	2422.000	5.10	28.93	35.63	88.42	86.82	54.00	32.82	Average



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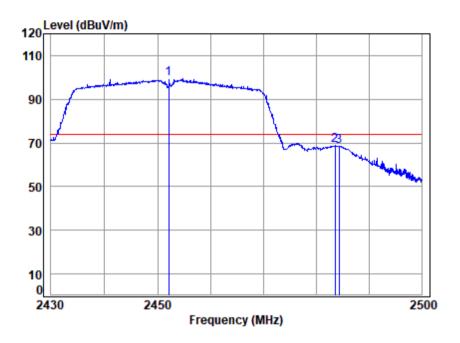


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Report No.: SZCR230900294904

Page: 56 of 126

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

: 2452 Band edge Mode Note : 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	5.13	29.11	35.62	100.74	99.36	74.00	25.36	peak
2	2483.500	5.16	29.30	35.61	69.85	68.70	74.00	-5.30	peak
3	2484.217	5.16	29.31	35.61	69.81	68.67	74.00	-5.33	peak



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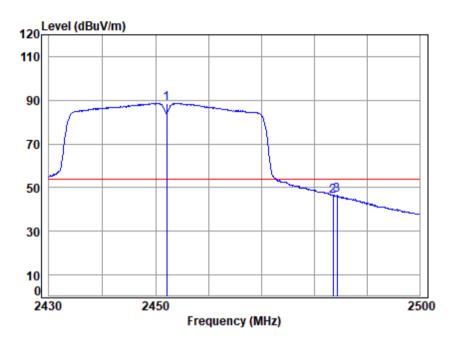


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

: 2452 Band edge Mode Note : 2.4G WIFI 11N40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q 2452.000 2483.500								_
2484.217								_



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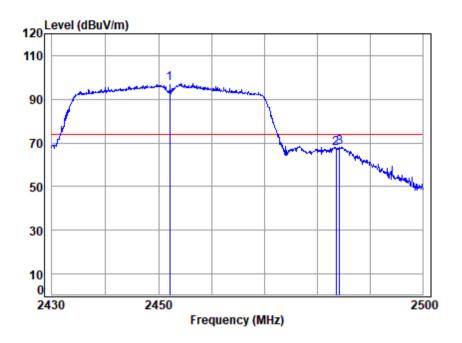


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2452 Band edge Mode Note : 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
-				——dB				——dB	
1 q	2452.000	5.13	29.11	35.62	98.75	97.37	74.00	23.37	Peak
2	2483.500	5.16	29.30	35.61	68.71	67.56	74.00	-6.44	Peak
3	2484.147	5.16	29.31	35.61	68.98	67.84	74.00	-6.16	Peak



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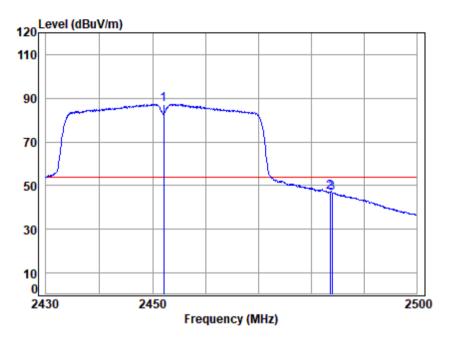


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

: 2452 Band edge Mode Note : 2.4G WIFI 11N40

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	q 2452.000 2483.500								_
3	2483.865	5.16	29.30	35.61	47.83	46.68	54.00	-7.32	Average



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### 7.8 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

Measurement Distance: 10m

#### 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

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

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1000 mbar

#### 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.



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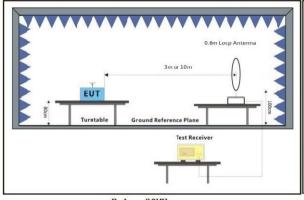


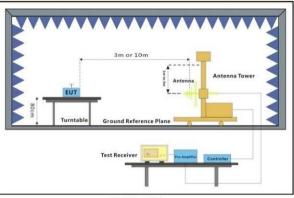
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#### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.8.4 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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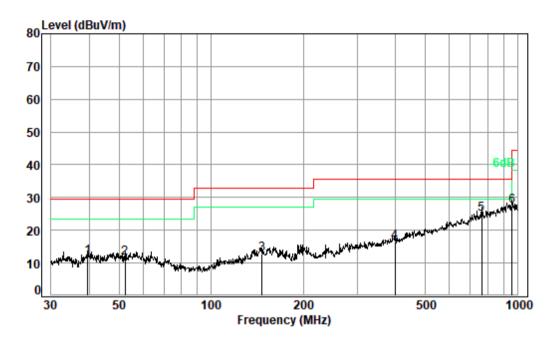


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Test Mode: 03; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 02949AT

Test Mode: 03

•											
			Read	Ant	Cable	Preamp		Limit	0ver		
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	_										_
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	1	39.576	26.77	17.02	0.45	32.50	11.74	29.50	-17.76	QP	
	2	52.391	26.23	17.22	0.52	32.50	11.47	29.50	-18.03	QP	
	3	146.888	26.87	17.39	0.91	32.40	12.77	33.00	-20.23	QP	
	4	399.030	27.35	19.83	1.63	32.30	16.51	35.60	-19.09	QP	
	5 pp	763.376	28.94	25.87	2.38	32.11	25.08	35.60	-10.52	QP	
	6	962,162	27.61	28.31	2.64	31.28	27.28	44.40	-17.12	OP	



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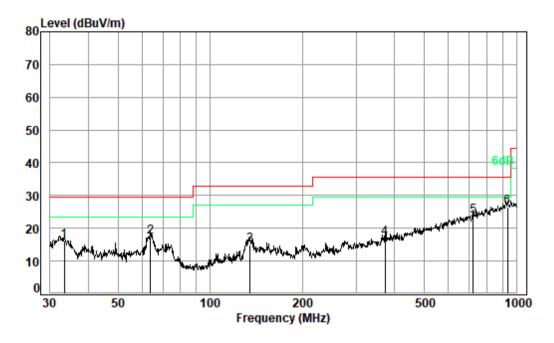


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Test Mode: 03; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02949AT

Test Mode: 03

	Freq		Ant Factor						Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	33.445	31.97	16.29	0.41	32.50	16.17	29.50	-13.33	QP
2	63.759	32.69	16.41	0.57	32.47	17.20	29.50	-12.30	QP
3	135.032	30.06	16.46	0.86	32.40	14.98	33.00	-18.02	QP
4	372.005	28.47	19.40	1.57	32.30	17.14	35.60	-18.46	QP
5	721.726	28.14	25.44	2.28	32.23	23.63	35.60	-11.97	QP
6 рр	935.546	26.75	28.28	2.61	31.33	26.31	35.60	-9.29	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
39.576	11.74	3.86	12.88	22.20	40.00	-17.80	Н
52.391	11.47	3.75	12.48	21.93	40.00	-18.07	Н
146.888	12.77	4.35	14.50	23.23	43.50	-20.27	Н
399.03	16.51	6.69	22.30	26.97	46.00	-19.03	Н
763.376	25.08	17.95	59.82	35.54	46.00	-10.46	Н
962.162	27.28	23.12	77.07	37.74	54.00	-16.26	Н
33.445	16.17	6.43	21.45	26.63	40.00	-13.37	V
63.759	17.2	7.24	24.15	27.66	40.00	-12.34	V
135.032	14.98	5.61	18.70	25.44	43.50	-18.06	V
372.005	17.14	7.19	23.98	27.60	46.00	-18.40	V
721.726	23.63	15.19	50.63	34.09	46.00	-11.91	V
935.546	26.31	20.68	68.93	36.77	46.00	-9.23	V



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### 7.9 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

Measurement Distance: 3m

#### Limit:

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

#### 7.9.1 E.U.T. Operation

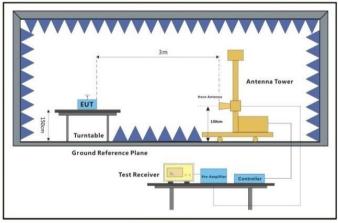
Operating Environment:

Temperature: 23.2 °C Humidity: 69.6 % RH Atmospheric Pressure: 1000 mbar

### 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



Above 1GHz



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#### 7.9.4 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.
- 4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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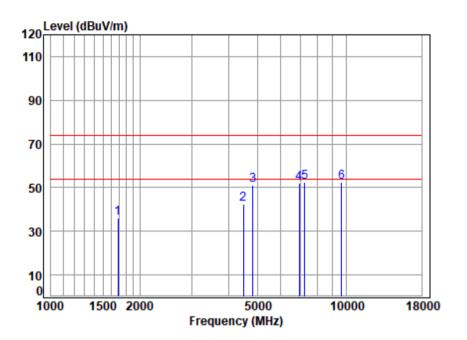


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1687.347	4.31	26.77	36.43	41.27	35.92	74.00	-38.08	peak
2		4495.125	7.12	33.50	34.67	36.49	42.44	74.00	-31.56	peak
3		4824.000	7.33	33.90	34.88	44.75	51.10	74.00	-22.90	peak
4		6934.778	8.87	35.67	35.86	43.20	51.88	74.00	-22.12	peak
5		7236.000	9.21	35.80	35.95	43.41	52.47	74.00	-21.53	peak
6	q	9648.000	12.39	37.10	35.55	38.64	52.58	74.00	-21.42	peak



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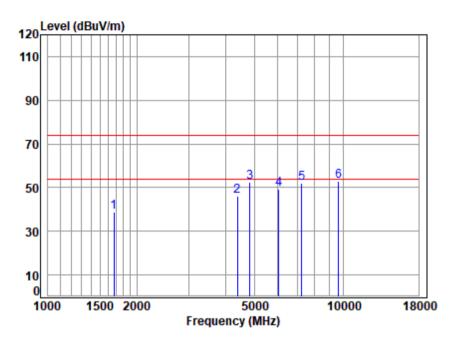


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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							-		
1	1672.779	4.30	26.75	36.46	44.13	38.72	74.00	-35.28	peak
2	4392.376	7.05	33.52	34.60	39.89	45.86	74.00	-28.14	peak
3	4824.000	7.33	33.90	34.88	46.22	52.57	74.00	-21.43	peak
4	6053.894	8.21	35.01	35.09	41.14	49.27	74.00	-24.73	peak
5	7236.000	9.21	35.80	35.95	42.73	51.79	74.00	-22.21	peak
6 0	9648.000	12.39	37.10	35.55	38.88	52.82	74.00	-21.18	peak



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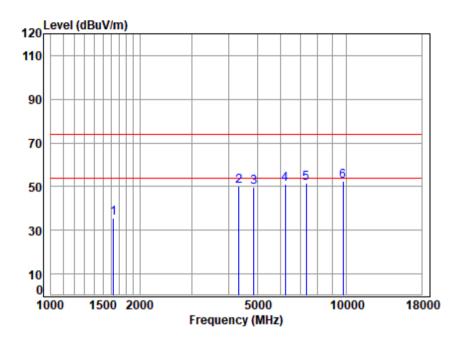


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1629.825	4.24	26.62	36.56	41.31	35.61	74.00	-38.39	peak
2		4329.354	7.01	33.60	34.56	44.16	50.21	74.00	-23.79	peak
3		4874.000	7.36	34.05	34.91	43.24	49.74	74.00	-24.26	peak
4		6231.427	8.35	35.20	35.25	42.88	51.18	74.00	-22.82	peak
5		7311.000	9.30	35.90	35.97	42.55	51.78	74.00	-22.22	peak
6	q	9748.000	12.46	37.20	35.56	38.56	52.66	74.00	-21.34	peak



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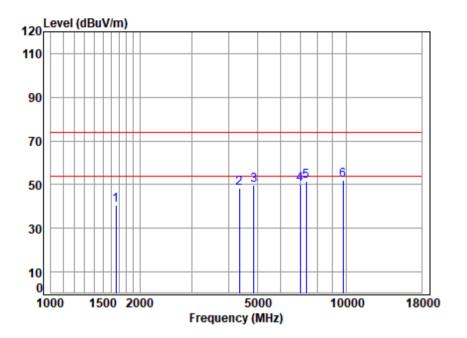


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Test Mode: 03; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							•		
1	1663.137	4.28	26.73	36.48	45.85	40.38	74.00	-33.62	peak
2	4354.454	7.03	33.59	34.58	42.15	48.19	74.00	-25.81	peak
3	4874.000	7.36	34.05	34.91	43.12	49.62	74.00	-24.38	peak
4	6974.982	8.90	35.75	35.89	41.56	50.32	74.00	-23.68	peak
5									•
6 q	9748.000								•



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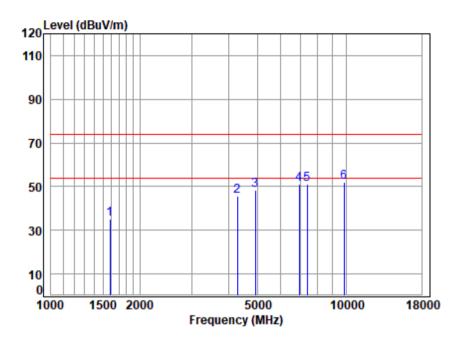


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1583.392	4.18	26.30	36.67	41.33	35.14	74.00	-38.86	peak
2		4279.589	6.98	33.60	34.53	39.42	45.47	74.00	-28.53	peak
3		4924.000	7.39	34.15	34.94	41.69	48.29	74.00	-25.71	peak
4		6934.778	8.87	35.67	35.86	42.63	51.31	74.00	-22.69	peak
5		7386.000	9.39	35.90	35.98	41.90	51.21	74.00	-22.79	peak
6	q	9848.000	12.53	37.30	35.57	37.64	51.90	74.00	-22.10	peak



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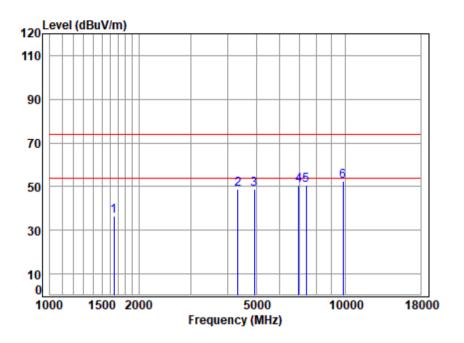


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Report No.: SZCR230900294904

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	4.26	26.70	36.52	41.88	36.32	74.00	-37.68	peak
2		4329.354	7.01	33.60	34.56	42.81	48.86	74.00	-25.14	peak
3		4924.000	7.39	34.15	34.94	42.24	48.84	74.00	-25.16	peak
4		6954.852	8.89	35.71	35.87	41.98	50.71	74.00	-23.29	peak
5		7386.000	9.39	35.90	35.98	41.16	50.47	74.00	-23.53	peak
6	q	9848.000	12.53	37.30	35.57	38.30	52.56	74.00	-21.44	peak



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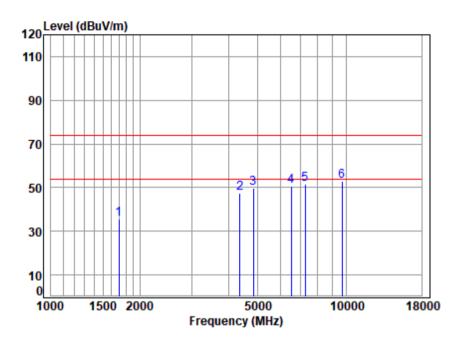


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	4.33	26.79	36.41	40.87	35.58	74.00	-38.42	peak
2		4367.058	7.04	33.57	34.59	41.47	47.49	74.00	-26.51	peak
3					34.89					•
4		6526.373	8.58	35.55	35.51	42.09	50.71	74.00	-23.29	peak
5										•
6	q	9688.000								•



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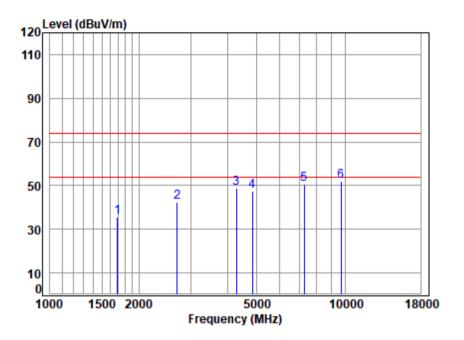


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 2422 TX RSE

: 2.4G WIFI 11N40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	4.32	26.78	36.42	40.79	35.47	74.00	-38.53	peak
2	2702.799	5.35	29.50	35.54	42.96	42.27	74.00	-31.73	Peak
3	4291.977	6.99	33.60	34.54	42.96	49.01	74.00	-24.99	peak
4	4844.000	7.34	33.98	34.89	41.20	47.63	74.00	-26.37	peak
5	7266.000								•
	9688.000								•



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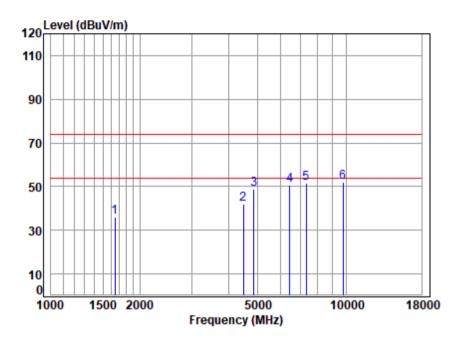


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	4.26	26.70	36.52	41.51	35.95	74.00	-38.05	peak
2		4482.150	7.11	33.50	34.66	36.00	41.95	74.00	-32.05	peak
3		4874.000	7.36	34.05	34.91	42.43	48.93	74.00	-25.07	peak
4		6451.353	8.52	35.40	35.45	42.39	50.86	74.00	-23.14	peak
5		7311.000	9.30	35.90	35.97	42.43	51.66	74.00	-22.34	peak
6	q	9748.000	12.46	37.20	35.56	37.91	52.01	74.00	-21.99	peak



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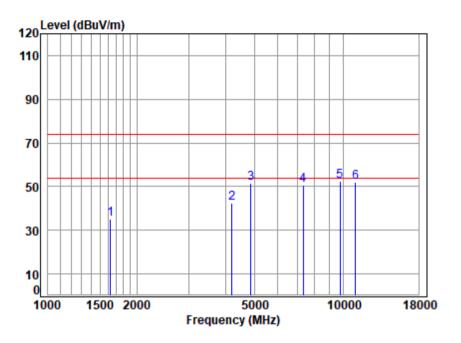


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1629.825	4.24	26.62	36.56	40.85	35.15	74.00	-38.85	peak	
2	4193.872	6.92	33.36	34.47	36.76	42.57	74.00	-31.43	peak	
3	4874.000	7.36	34.05	34.91	44.99	51.49	74.00	-22.51	peak	
4	7311.000	9.30	35.90	35.97	41.49	50.72	74.00	-23.28	peak	
5	q 9748.000	12.46	37.20	35.56	38.20	52.30	74.00	-21.70	peak	
6	11012.250	12.90	37.71	36.01	37.22	51.82	74.00	-22.18	Peak	



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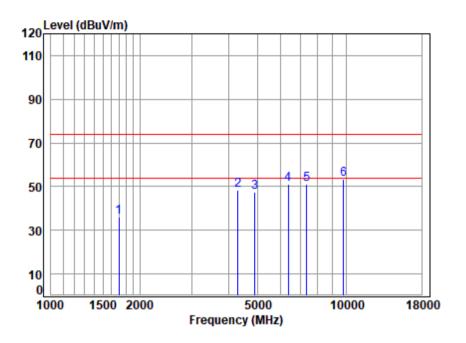


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.33	26.80	36.40	41.36	36.09	74.00	-37.91	peak
2	4304.400	6.99	33.60	34.54	42.38	48.43	74.00	-25.57	peak
3	4904.000	7.37	34.11	34.92	40.77	47.33	74.00	-26.67	peak
4	6358.789	8.45	35.22	35.37	42.59	50.89	74.00	-23.11	peak
5	7356.000	9.36	35.90	35.98	41.62	50.90	74.00	-23.10	peak
6	q 9808.000	12.50	37.22	35.57	39.45	53.60	74.00	-20.40	peak



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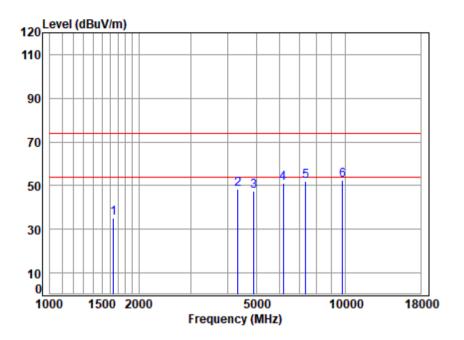


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Test Mode: 03; Polarity: Vertical: Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 2452 TX RSE

: 2.4G WIFI 11N40

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1644.019	4.26	26.68	36.53	40.92	35.33	74.00	-38.67	peak
2		4329.354	7.01	33.60	34.56	42.20	48.25	74.00	-25.75	peak
3		4904.000	7.37	34.11	34.92	41.04	47.60	74.00	-26.40	peak
4		6159.797	8.30	35.20	35.19	42.79	51.10	74.00	-22.90	peak
5		7356.000	9.36	35.90	35.98	42.52	51.80	74.00	-22.20	peak
6	q	9808.000	12.50	37.22	35.57	38.50	52.65	74.00	-21.35	peak



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### 7.10 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 11.6 Test Method: ANSI C63.10 (2013) Section 11.6

Limit:

N/A

### 7.10.1 E.U.T. Operation

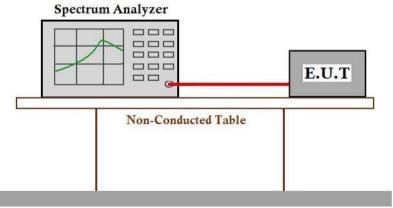
Operating Environment:

Humidity: 49.5 % RH Temperature: Atmospheric Pressure: 1005 mbar 24.7 °C

### 7.10.2 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.

### 7.10.3 Test Setup Diagram



Ground Reference Plane

### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Refer to Appendix - Test Setup Photo for SZCR2309002949AT

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

Refer to Appendix - External and Internal Photos for SZCR2309002949AT



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# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

				,	Ant1			
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
		2412	8.383	8.420	99.56	0.02	0.04	
802.11b	SISO	2437	8.383	8.420	99.56	0.02	0.00	
		2462	8.384	8.420	99.57	0.02	0.00	
		2412	1.394	1.437	97.01	0.13	0.03	
802.11g	SISO	1g SISO	2437	1.394	1.436	97.08	0.13	0.00
		2462	1.394	1.436	97.08	0.13	0.00	
000.44		2412	1.302	1.344	96.87	0.14	0.03	
802.11n (HT20)	SISO	2437	1.302	1.344	96.88	0.14	0.03	
(11120)		2462	1.302	1.344	96.88	0.14	0.03	
000.44		2422	0.638	0.680	93.82	0.28	0.00	
802.11n (HT40)	SISO	2437	0.637	0.680	93.68	0.28	0.03	
(11140)		2452	0.638	0.680	93.82	0.28	0.03	



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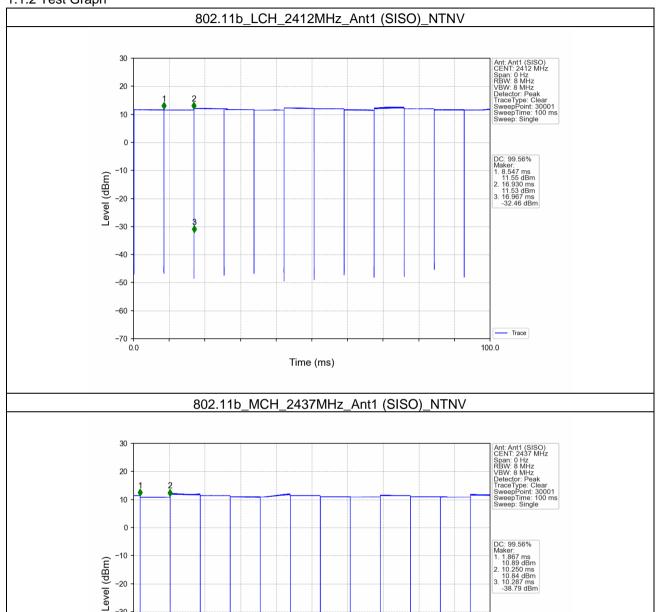


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### 1.1.2 Test Graph





-20

-30

-40

-50

-60

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Time (ms)

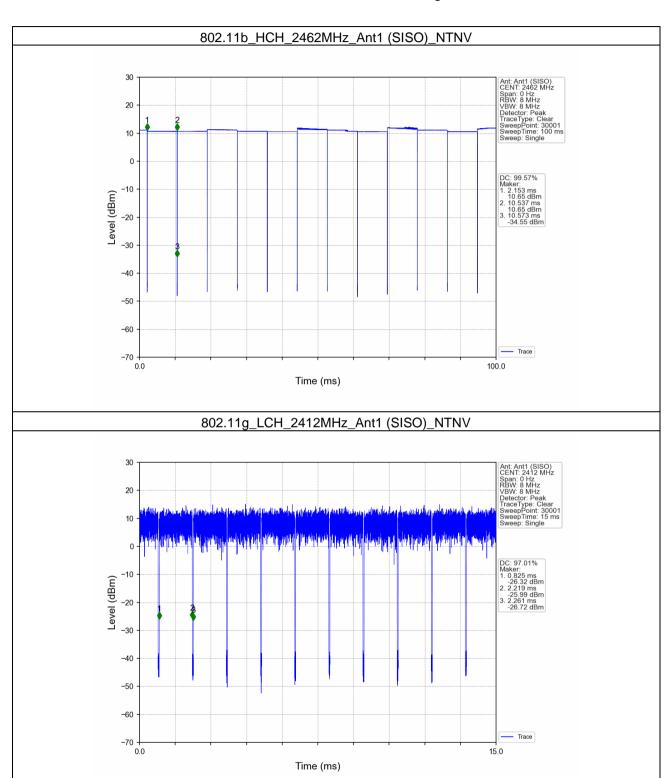
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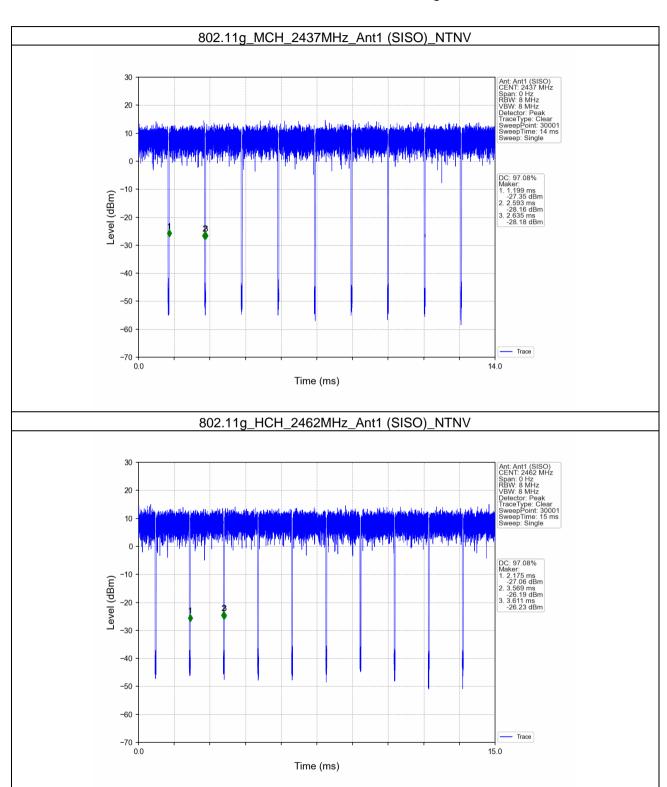
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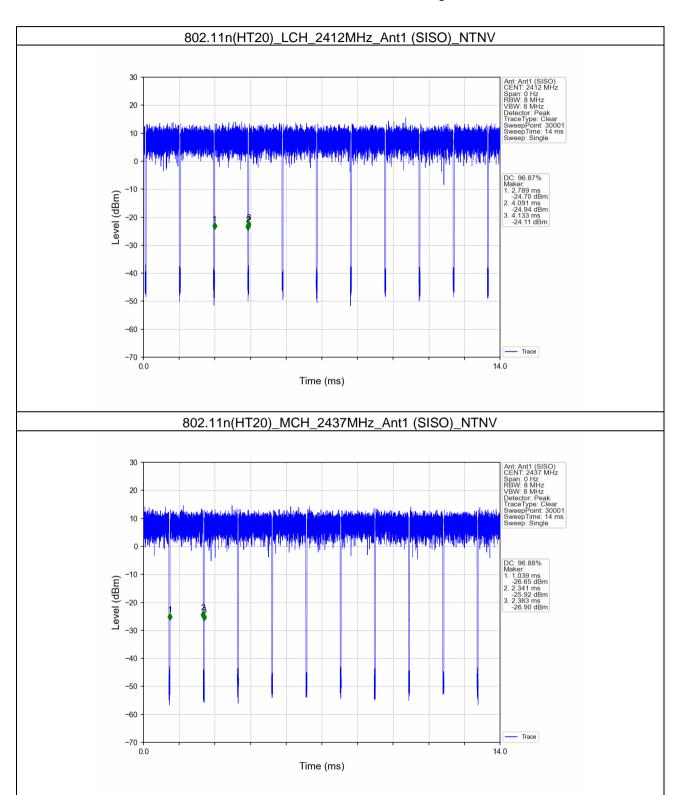
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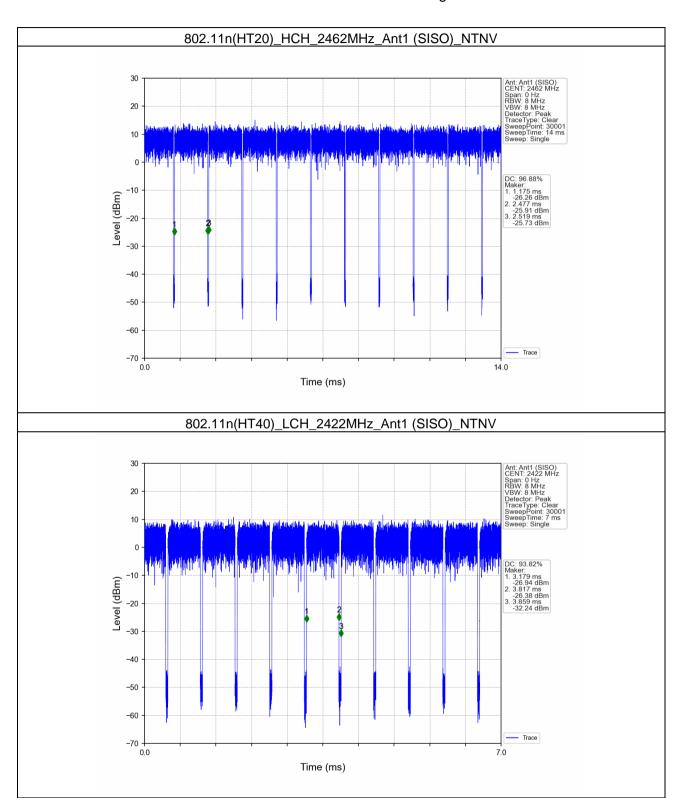
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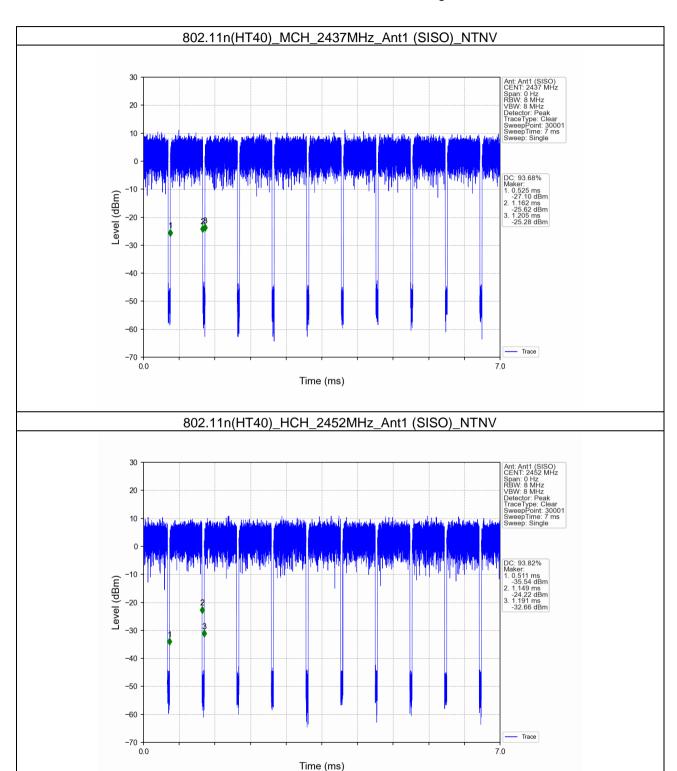
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### 2. Bandwidth

### 2.1 **OBW**

### 2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied Bandwidth (MHz)	\
Mode	Type	(MHz)	ANT	Result	Verdict
		2412	1	12.641	Pass
802.11b	SISO	2437	1	12.969	Pass
		2462	1	13.403	Pass
		2412	1	17.935	Pass
802.11g	SISO	2437	1	17.657	Pass
		2462	1	17.655	Pass
000.44		2412	1	18.948	Pass
802.11n (HT20)	SISO	2437	1	18.514	Pass
(11120)		2462	1	18.520	Pass
000 44		2422	1	36.986	Pass
802.11n (HT40)	SISO	2437	1	36.644	Pass
(11140)		2452	1	36.682	Pass



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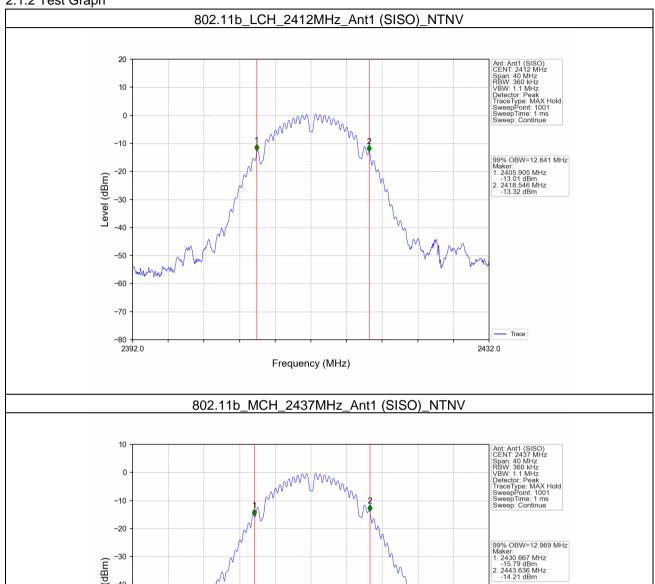


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### 2.1.2 Test Graph





Level (dBm) -40

-50

-60

-70

-80

-90 <del>↓</del> 2417.0

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Frequency (MHz)

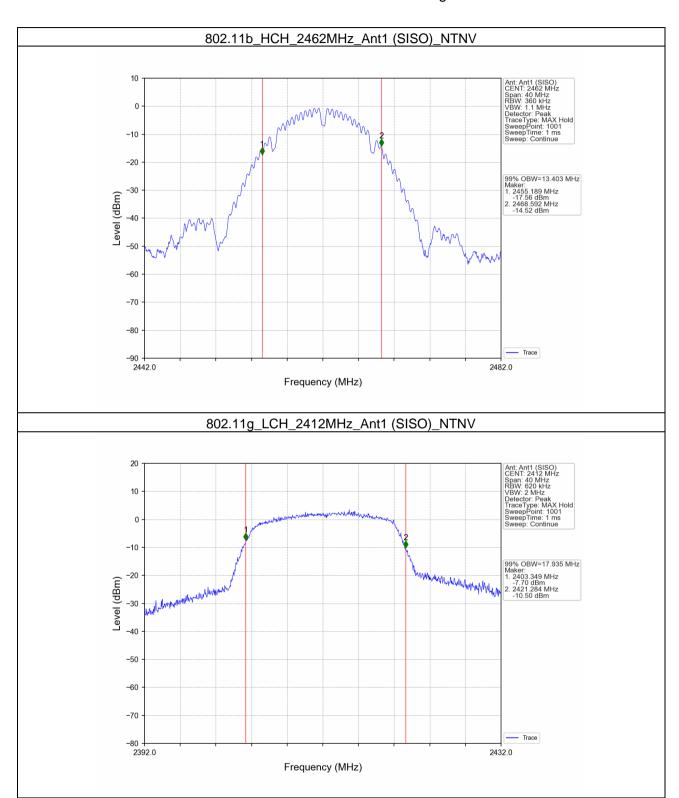
2457.0



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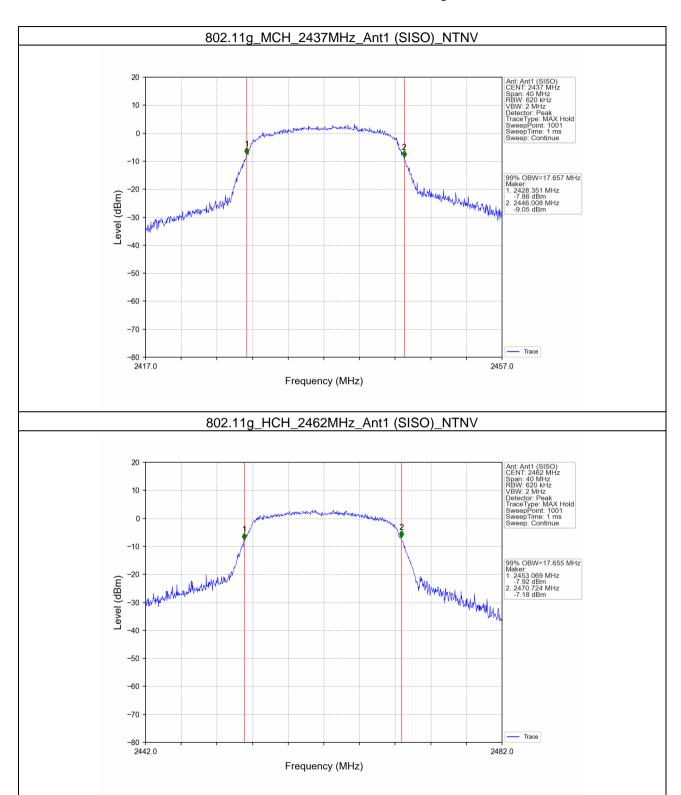
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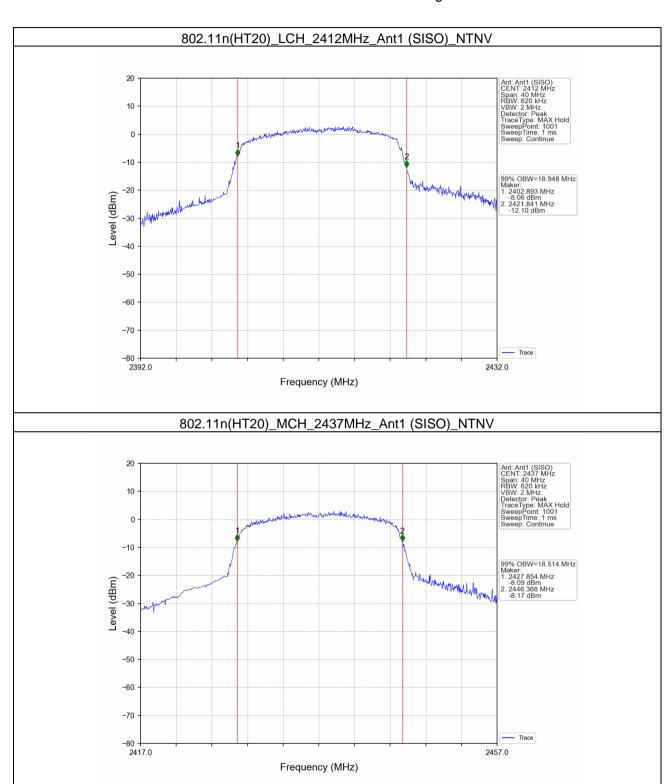
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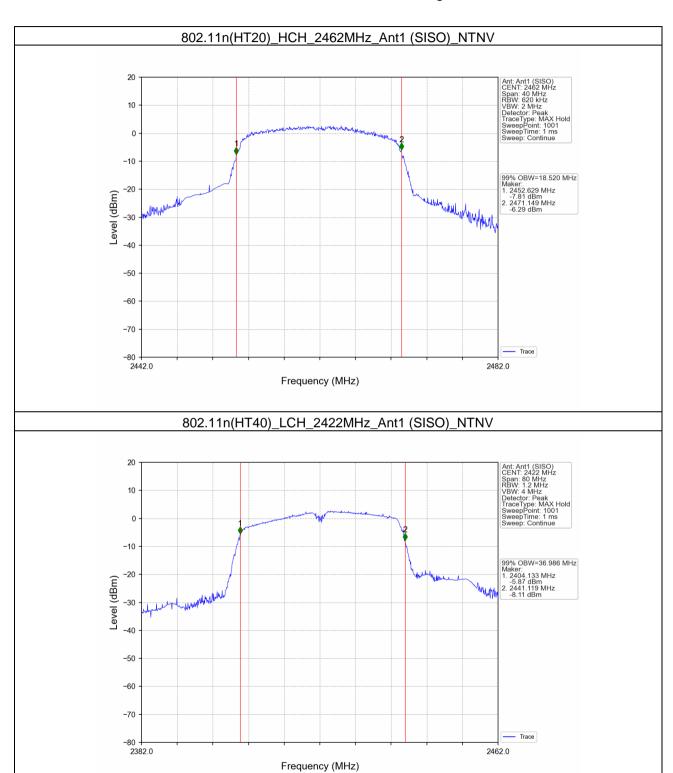
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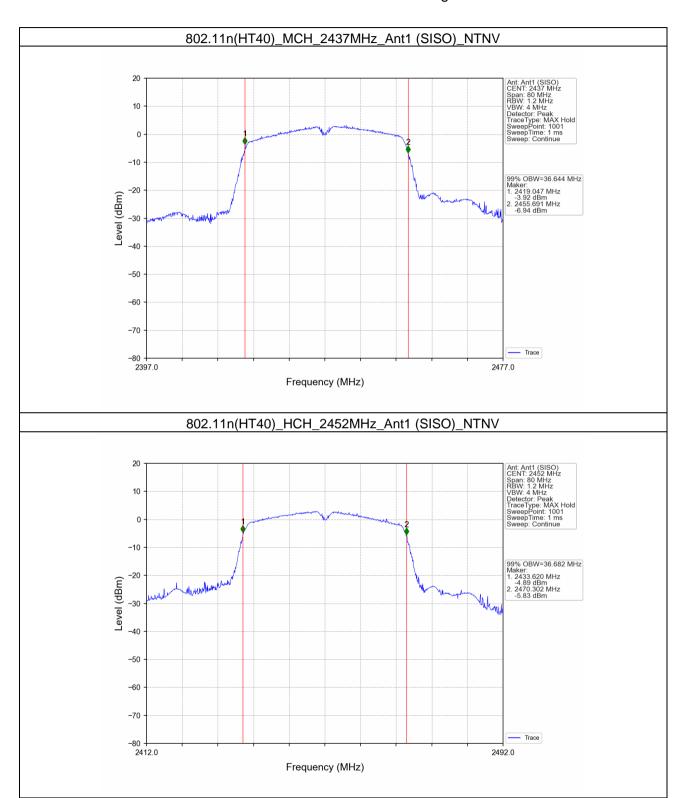
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### 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX	Frequency	A NIT	6dB Bandv	vidth (MHz)	\/o =diot
Mode	Type	(MHz)	ANT	Result	Limit	Verdict
		2412	1	8.549	>=0.5	Pass
802.11b	SISO	2437	1	8.085	>=0.5	Pass
		2462	1	8.595	>=0.5	Pass
		2412	1	15.482	>=0.5	Pass
802.11g	SISO	2437	1	15.157	>=0.5	Pass
		2462	1	15.481	>=0.5	Pass
000.44		2412	1	15.329	>=0.5	Pass
802.11n (HT20)	SISO	2437	1	15.159	>=0.5	Pass
(11120)		2462	1	15.363	>=0.5	Pass
000.44		2422	1	35.381	>=0.5	Pass
802.11n (HT40)	SISO	2437	1	35.114	>=0.5	Pass
(11140)		2452	1	35.118	>=0.5	Pass



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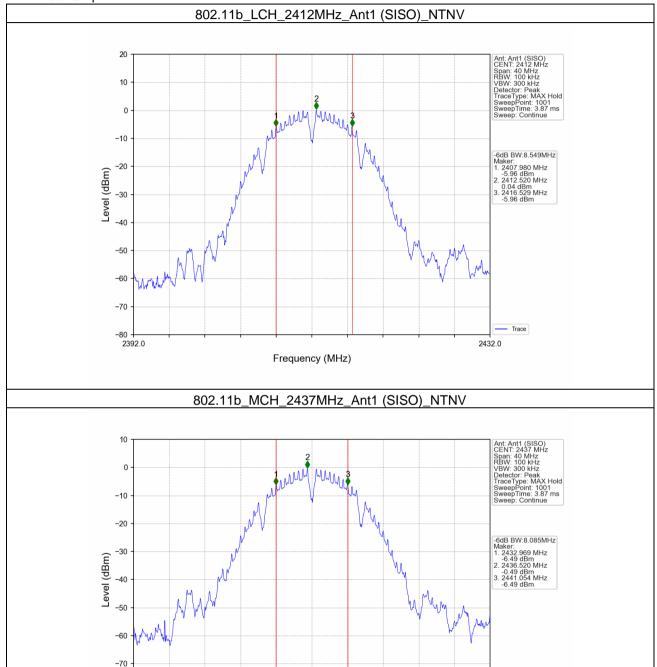


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### 2.2.2 Test Graph





-80

-90 <del>↓</del> 2417.0

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Frequency (MHz)

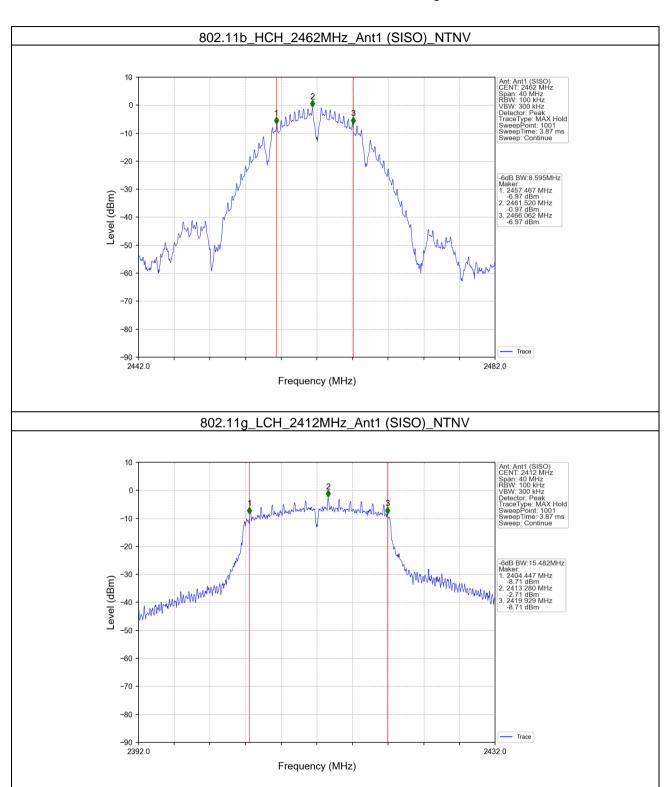
2457.0



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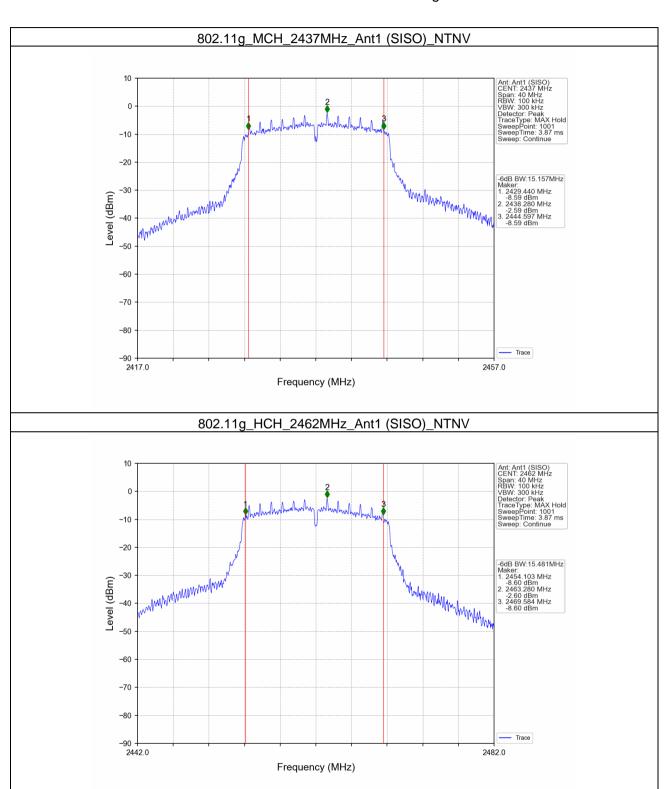
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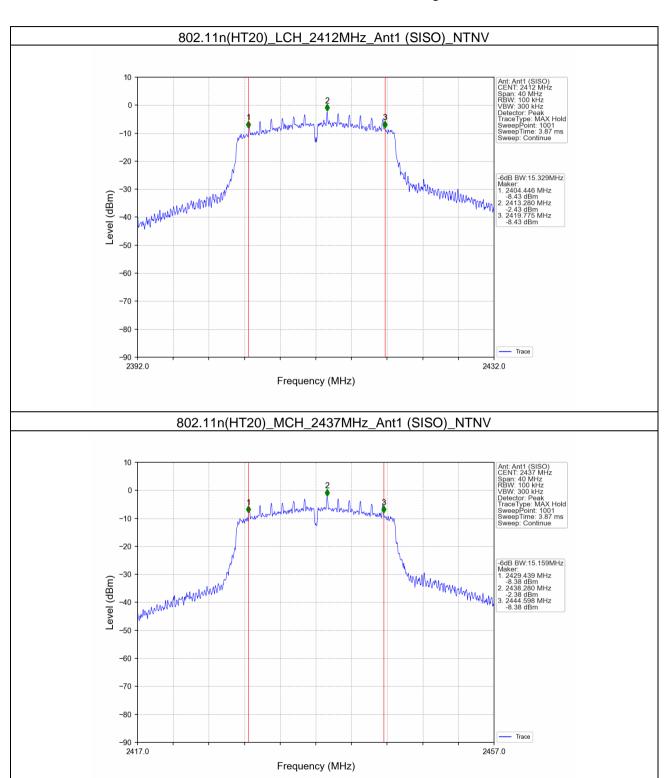
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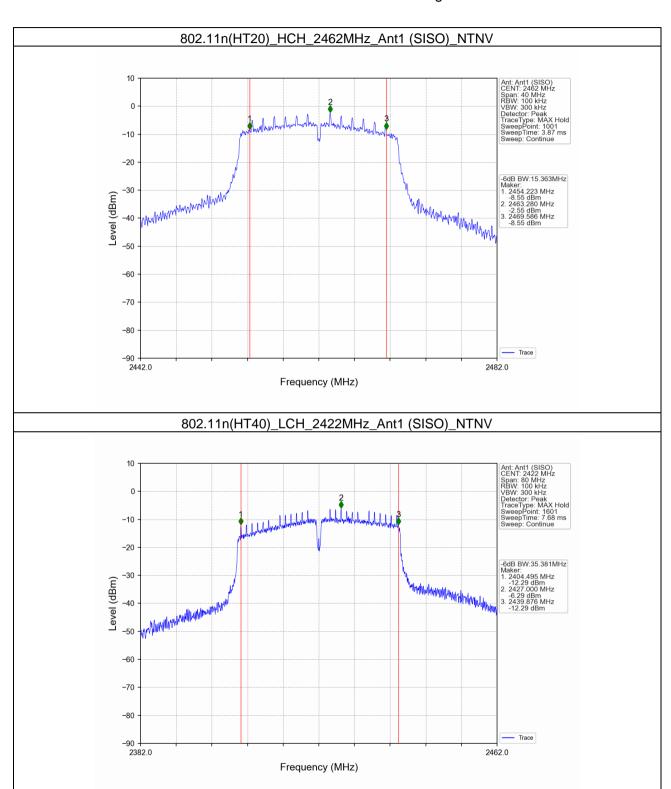
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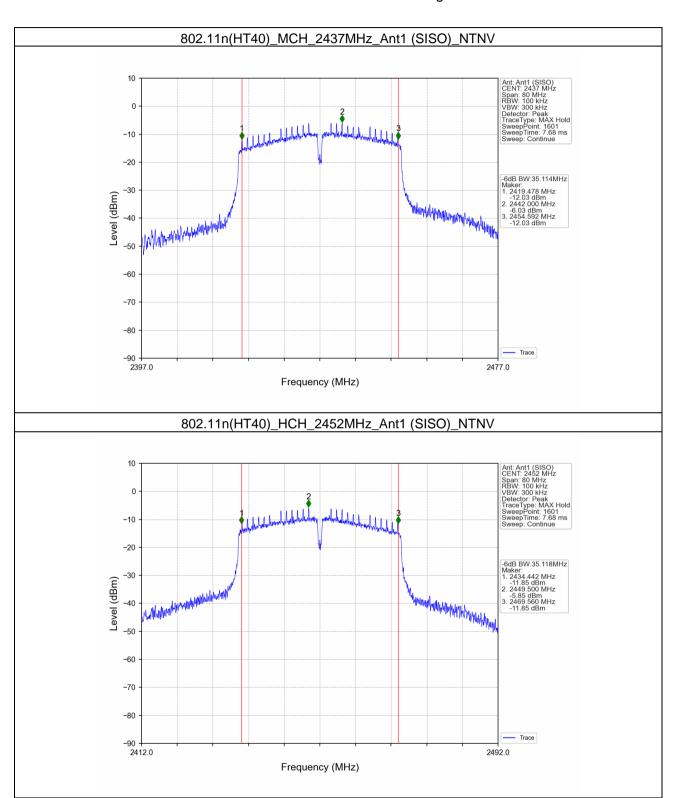
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# 3. Maximum Conducted Output Power

### 3.1 Power

### 3.1.1 Test Result

Mode	TX	Frequency		nducted Output Power 3m)	Verdict
	Туре	(MHz)	ANT1	Limit	
		2412	14.94	<=30	Pass
802.11b	SISO	2437	15.18	<=30	Pass
		2462	15.48	<=30	Pass
		2412	12.93	<=30	Pass
802.11g	SISO	2437	13.20	<=30	Pass
		2462	13.51	<=30	Pass
000.44		2412	12.71	<=30	Pass
802.11n (HT20)	SISO	2437	13.03	<=30	Pass
(11120)		2462	13.29	<=30	Pass
222.44		2422	12.23	<=30	Pass
802.11n (HT40)	SISO	2437	12.36	<=30	Pass
(11140)		2452	12.50	<=30	Pass

# 4. Maximum Power Spectral Density

### 4.1 PSD

### 4.1.1 Test Result

Mada	TX	Frequency	Maximum PS	D (dBm/3kHz)	Manaliat
Mode	Type	(MHz)	ANT1	Limit	Verdict
		2412	-7.27	<=8	Pass
802.11b	SISO	2437	-7.61	<=8	Pass
		2462	-7.70	<=8	Pass
		2412	-11.44	<=8	Pass
802.11g	SISO	2437	-11.57	<=8	Pass
		2462	-10.84	<=8	Pass
000.44		2412	-12.52	<=8	Pass
802.11n (HT20)	SISO	2437	-12.24	<=8	Pass
(11120)		2462	-11.06	<=8	Pass
000.44		2422	-13.46	<=8	Pass
802.11n (HT40)	SISO	2437	-12.79	<=8	Pass
(11140)		2452	-15.42	<=8	Pass



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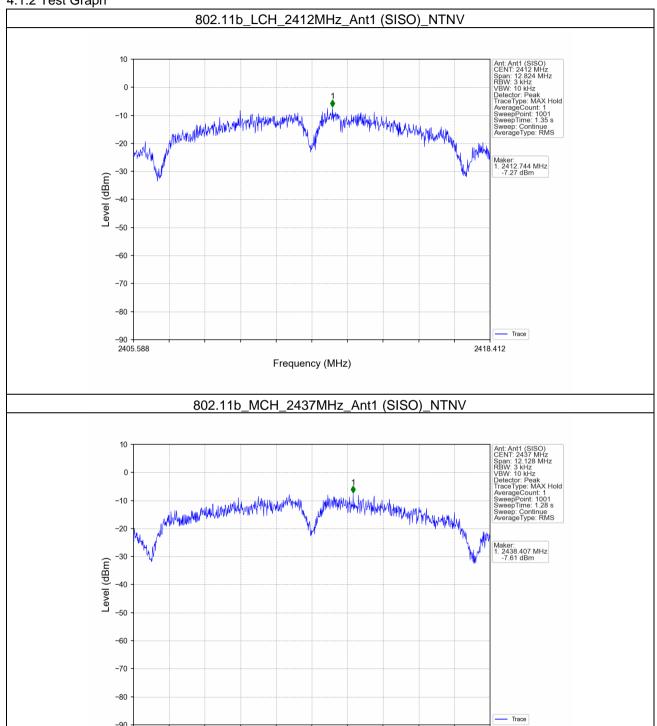


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### 4.1.2 Test Graph





2430.936

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Frequency (MHz)

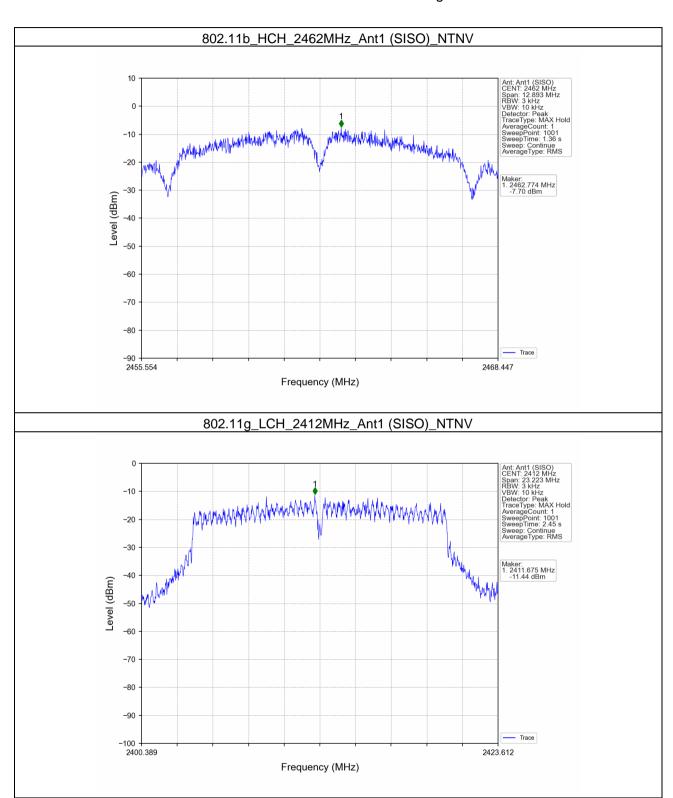
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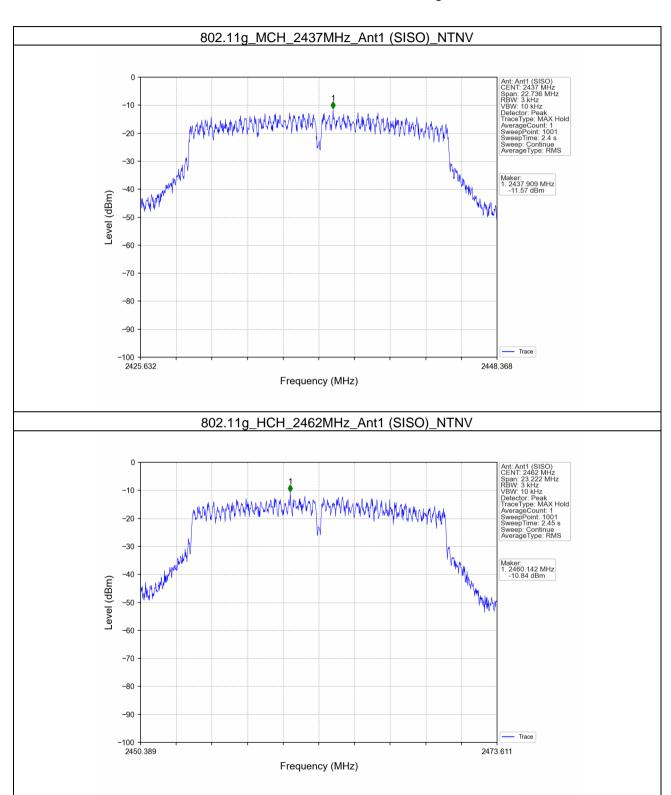
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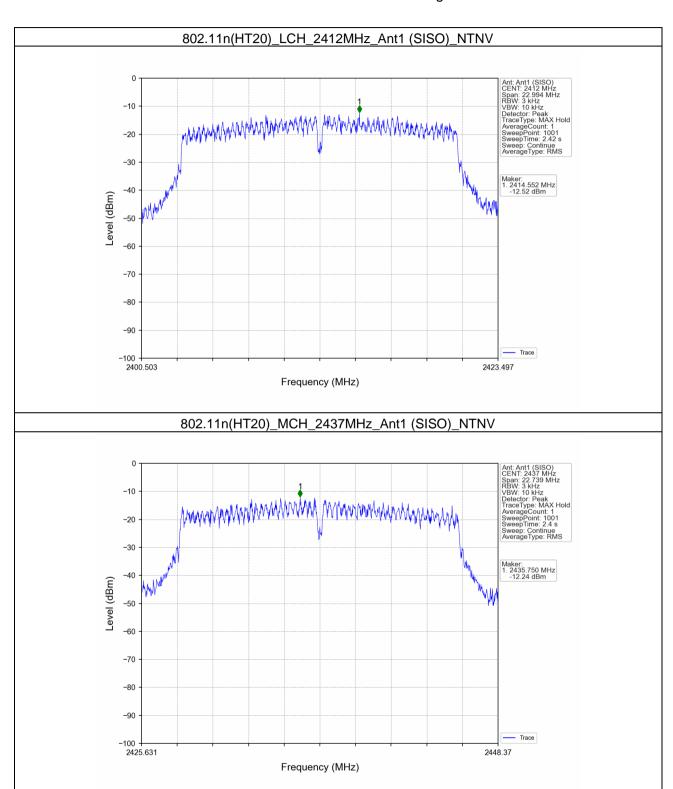
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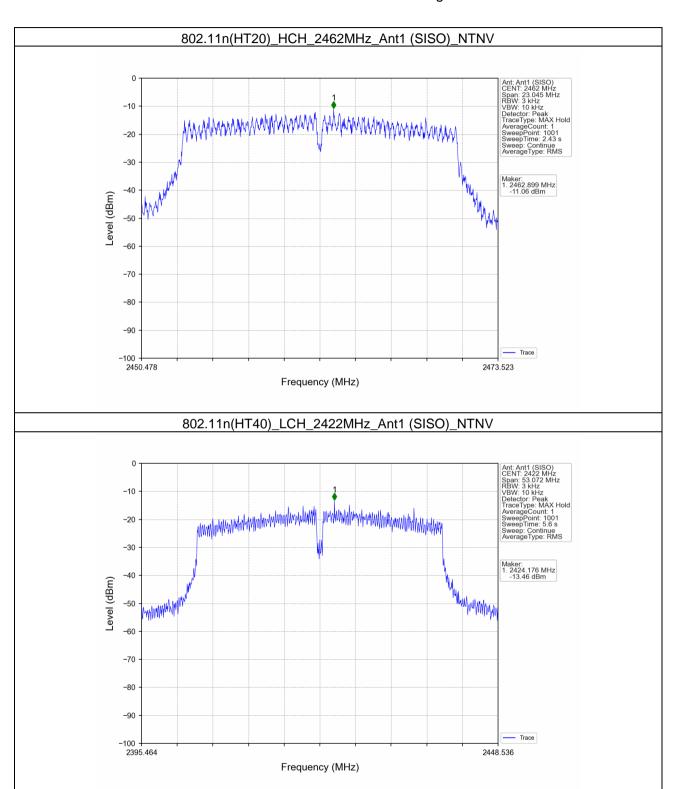
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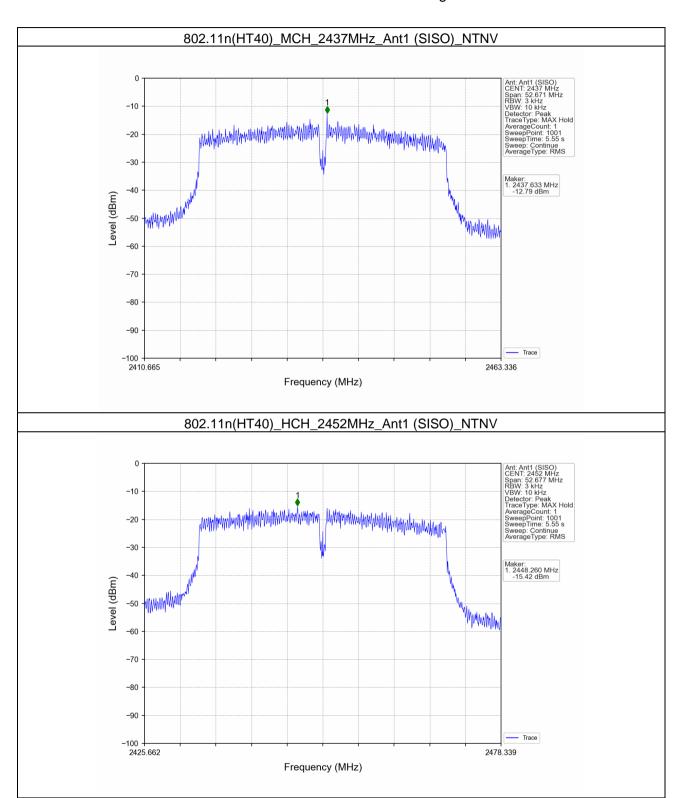
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### 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.10
		2437	1	7.36
		2462	1	7.55
802.11g	SISO	2412	1	2.77
		2437	1	2.77
		2462	1	3.49
802.11n (HT20)	SISO	2412	1	3.21
		2437	1	3.07
		2462	1	2.99
802.11n (HT40)	SISO	2422	1	-0.38
		2437	1	-0.32
		2452	1	-0.19



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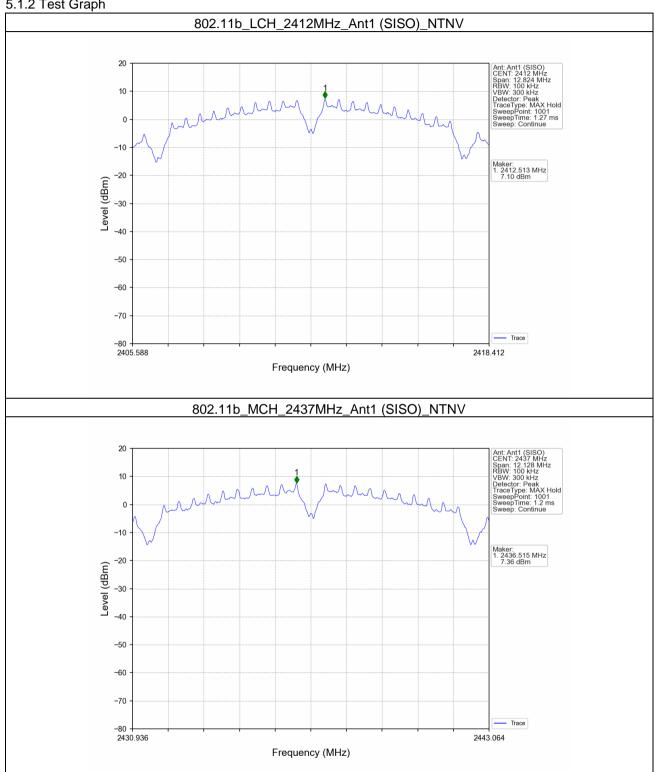


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### 5.1.2 Test Graph





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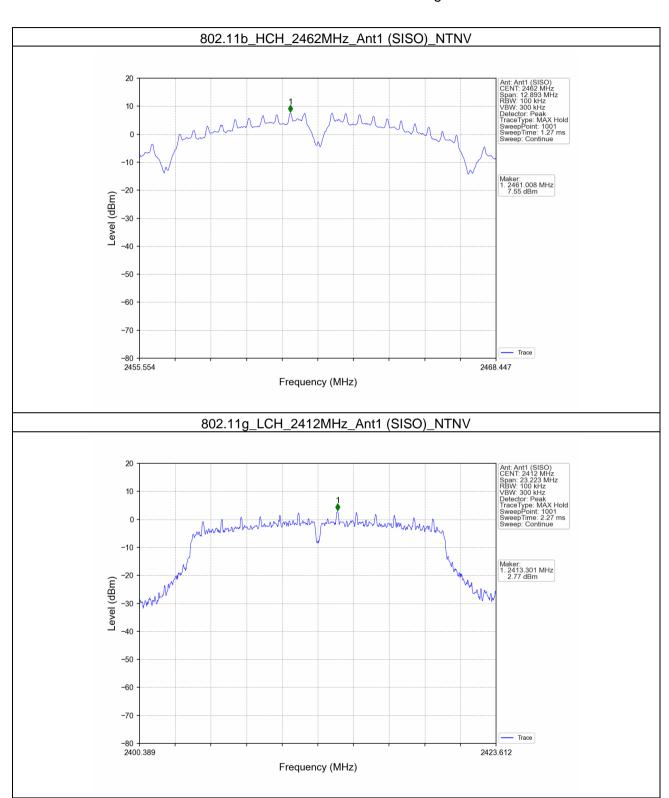
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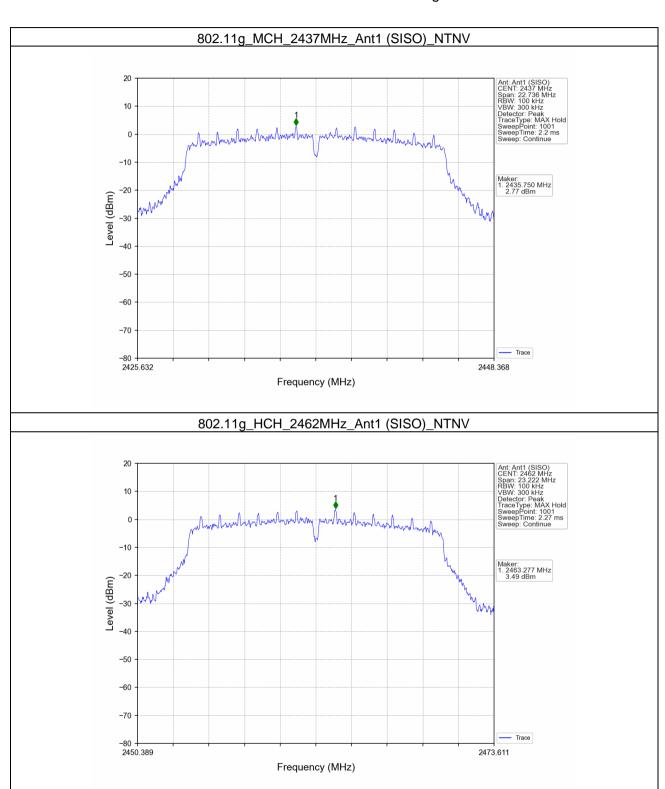
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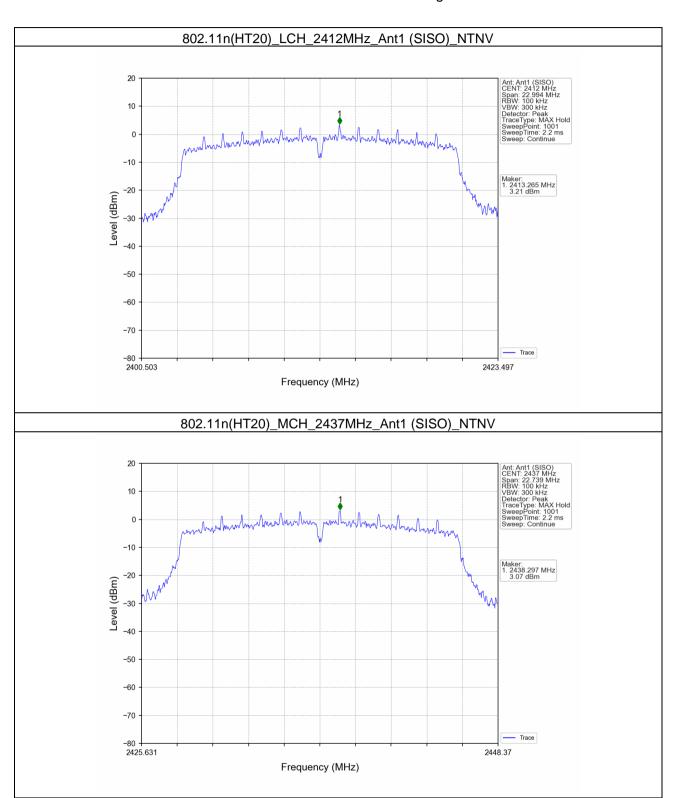
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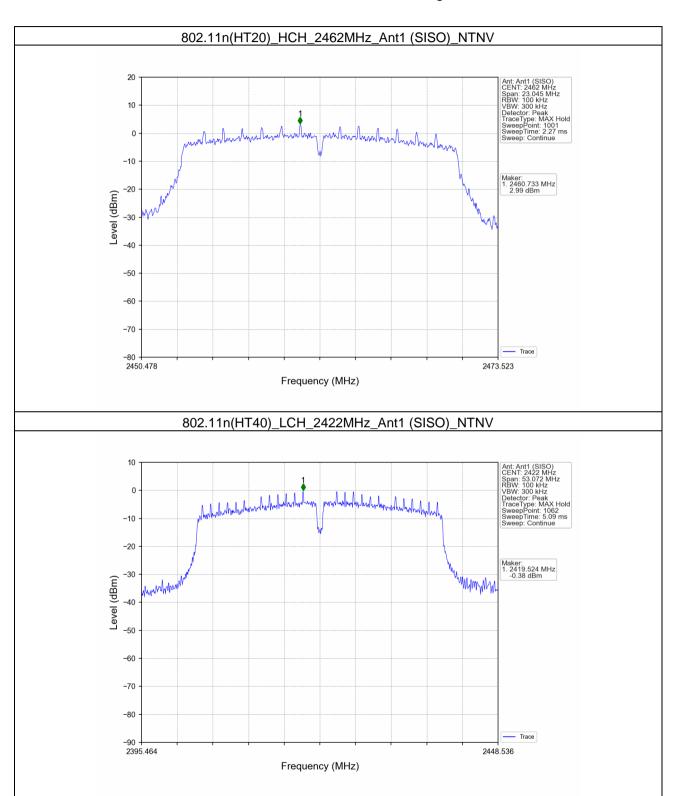
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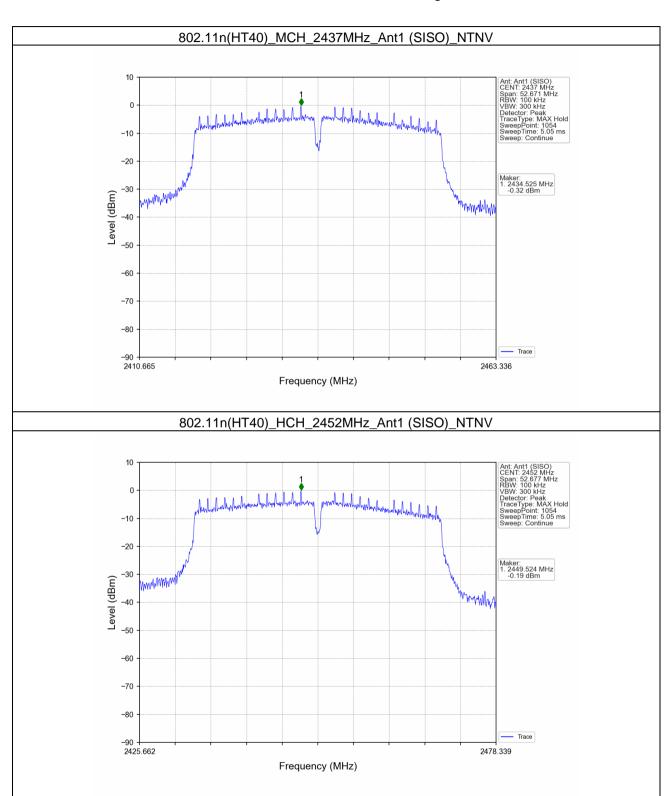
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