

Report No.: SZEM200800737505

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TEST REPORT

Application No.:SZEM2008007375CRApplicant:PAX Technology Limited

Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China

Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.

Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road,

High-Tech industrial Park, Shenzhen, Guangdong, P.R.C

Factory: Guangzhou PAX Computer Technology Co., Ltd

Address of Factory: No.2 Bldg, No.113 Jinyang Road, Hualong Town, Panyu, Guangzhou,

Guangdong, China

Equipment Under Test (EUT):

EUT Name: Mobile Payment Terminal

Model No.: D190
Trade mark: PAX

FCC ID: V5PD190BW

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

Date of Receipt: 2020-08-03

Date of Test: 2020-08-04 to 2020-09-03

Date of Issue: 2020-09-04

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. xu



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



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	Revision Record					
Version Chapter Date Modifier Ren						
01		2020-09-04		Original		

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	-
	EvicFu	
	Eric Fu/Reviewer	-



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Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Res						
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	
Maximum Conducted	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Output Power	Subpart C 15.247	Section 11.9.1	C 15.247(b)(3)		
Minimum 6dB	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)		
Power Spectrum	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Density	Subpart C 15.247	Section 11.10.2	C 15.247(e)		
Conducted Band	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)		
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass	
Radiated Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass	
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209		

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		



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4 General Information

4.1 Details of E.U.T.

Rated voltage:	DC3.7V	
Power adapter:	M/N:GLH50D1000HW	
	Adapter input: 100-240VAC, 50/60Hz, 0.40A	
	Adapter output: DC5V/1A	
Battery:	DC3.7V li-ion battery(1900mAh)	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz	
Madulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);	
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)	
Number of Channels:	802.11b/g/n(HT20):11	
Channel Spacing:	5MHz	
Antenna Type:	FPC antenna	
Antenna Gain:	-0.6dBi	

4.2 Cable

Cable	Length	Shielding	Core
USB cable	0.75m	Unshielded	Non-Core

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty	
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)	
Maximum Conducted 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	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)	
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)	

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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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4.5 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, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

4.6 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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

• 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.

4.7 Deviation from Standards

None

4.8 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	2019-06-13	2022-06-12	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	

Maximum Conducted Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20	
Power Sensor	KEYSIGHT	U2021XA	SEM009-13	2020-04-11	2021-04-10	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20



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99% Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20



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Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-28	2020-09-27
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer Agilent Technologies N90		N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Horn Antenna Rohde&Schwarz		SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31



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Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15.203, Subpart C 15.247

Limit:

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.6dBi.

Antenna location: Refer to Internal photos.



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7 Radio Spectrum Matter Test Results

7.1 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	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). Only the data of worst case is recorded in the report.



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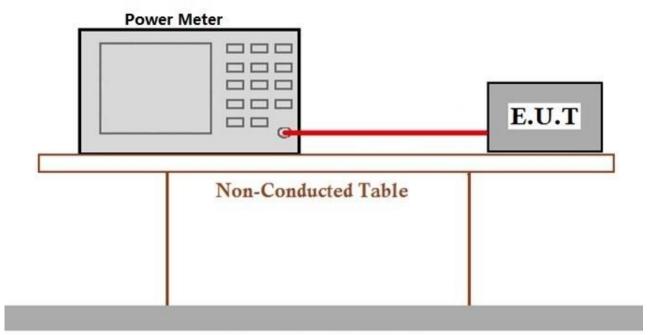
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7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.2 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

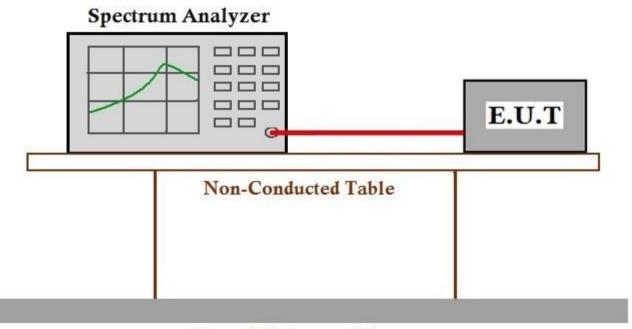
Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Tiziz Took Mode Bookington					
Pre-scan / Final test	Mode Code	Description			
Final test	10	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). Only the data of worst case is recorded in the report.			

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	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). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.4 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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	10	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). Only the data of worst case is recorded in the report.							



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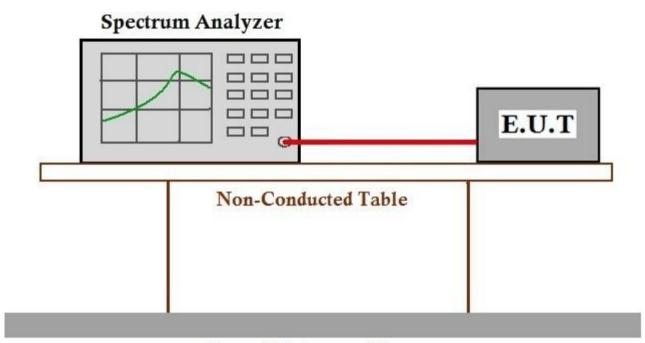
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7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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7.5 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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 52.6 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	10	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). Only the data of worst case is recorded in the report.							



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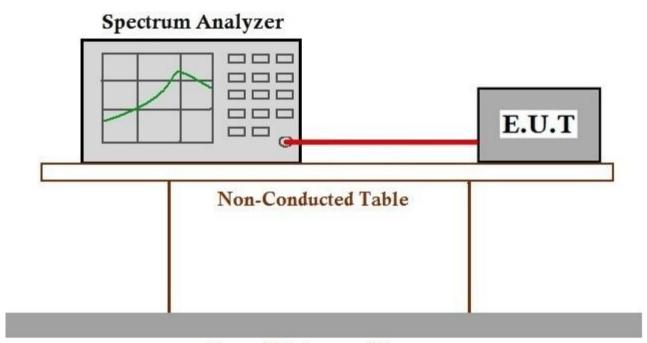
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.6 Radiated Emissions which fall in the restricted bands

47 CFR Part 15.205, 15.209, Subpart C 15.247 **Test Requirement**

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

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description								
Pre-scan	10	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). Only the data of worst case is recorded in the report.								
Final test	11	Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.								



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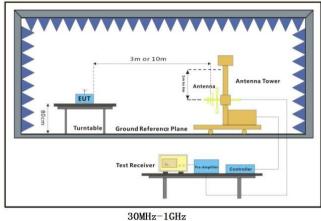
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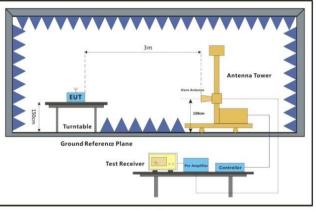


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7.6.3 Test Setup Diagram





Above 1GHz

7.6.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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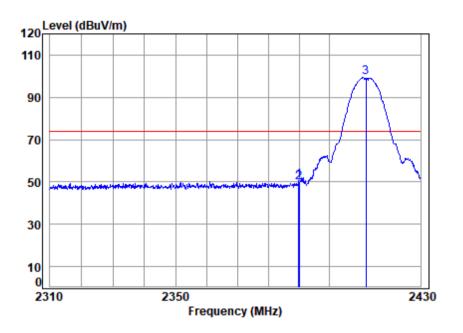
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 07375CR/07376CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark	
			dB/m							
1	2389.847								peak	
	2390.000								•	
3 *	2412.000	4.38	28.56	40.98	107.45	99.41	74.00	25.41	peak	



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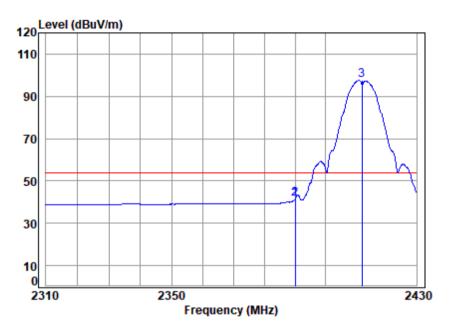
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 07375CR/07376CR Mode : 2412 Band edge : 2.4G WTFT 11B Note

		10 111	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	
	2389.968	4.34	28.52	40.97	49.55	41.44	54.00	-12.56	Average
	2390.000	4.34	28.52	40.97	49.55	41.44	54.00	-12.56	Average
*	2412.000	4.38	28.56	40.98	105.56	97.52	54.00	43.52	Average



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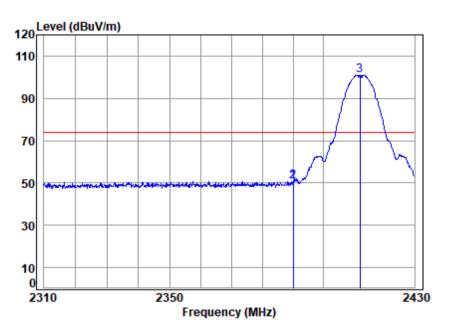
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2412 Band edge

: 2.4G WTFT 11B Note

_			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		
	2389.968	4.34	28.52	40.97	58.98	50.87	74.00	-23.13	peak	
	2390.000	4.34	28.52	40.97	58.98	50.87	74.00	-23.13	peak	
*	2412.000	4.38	28.56	40.98	108.98	100.94	74.00	26.94	peak	



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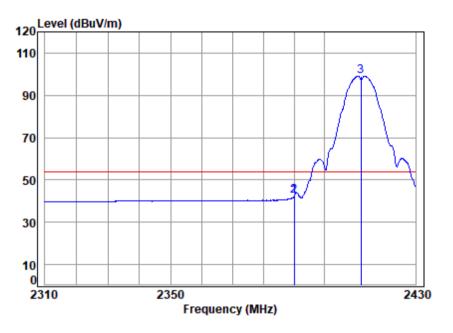
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR

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

	Freq		Ant Factor						Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	4.34	28.52	40.97	50.42	42.31	54.00	-11.69	Average	
2	2390.000	4.34	28.52	40.97	50.42	42.31	54.00	-11.69	Average	
3 *	2412.000	4.38	28.56	40.98	107.09	99.05	54.00	45.05	Average	



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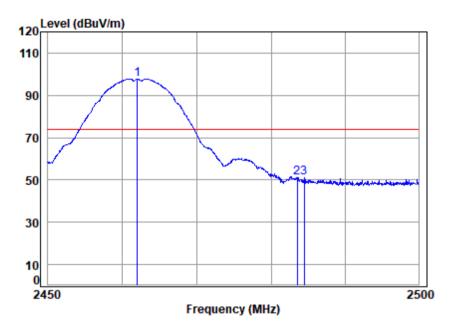
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 Band edge : 2.4G WTFT 11B Note

OCC	. 2.	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 *	2462.000	4.46	28.64	41.00	105.73	97.83	74.00	23.83	peak	
2	2483.500	4.49	28.67	41.01	58.96	51.11	74.00	-22.89	peak	
3	2484 442	4.50	28.67	41 91	58.88	51 04	74 99	-22 96	neak	



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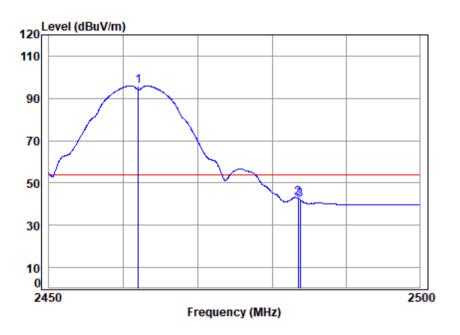
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 07375CR/07376CR Job No Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	103.80	95.90	54.00	41.90	Average
2	2483.500	4.49	28.67	41.01	50.71	42.86	54.00	-11.14	Average
3	2483.790	4.49	28.67	41.01	49.93	42.08	54.00	-11.92	Average



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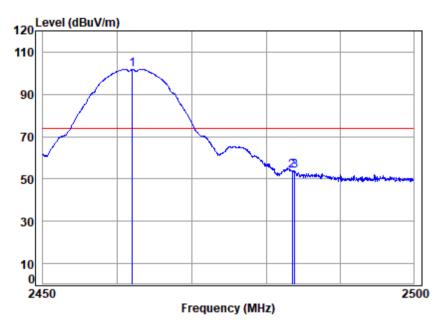
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2462 Band edge

: 2.4G WTFT 11B Note

			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		
*	2462.000	4.46	28.64	41.00	109.78	101.88	74.00	27.88	peak	
	2483.500	4.49	28.67	41.01	61.89	54.04	74.00	-19.96	peak	
	2483.840	4.49	28.67	41.01	61.76	53.91	74.00	-20.09	peak	



1 * 2

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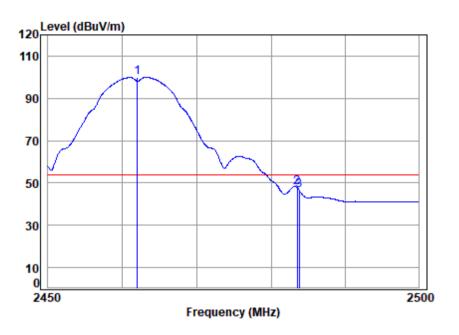
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Report No.: SZEM200800737505

Page: 30 of 100

Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 07375CR/07376CR Job No

Mode : 2462 Band edge Note : 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 *	2462.000	4.46	28.64	41.00	107.81	99.91	54.00	45.91	Average
2	2483.500	4.49	28.67	41.01	55.69	47.84	54.00	-6.16	Average
3	2483.790	4.49	28.67	41.01	54.46	46.61	54.00	-7.39	Average



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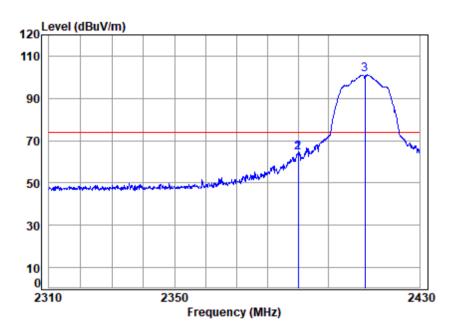
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Report No.: SZEM200800737505

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 Band edge : 2.4G WTFT 11G Note

0.0		10 111	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	2389.968	4.34	28.52	40.97	72.32	64.21	74.00	-9.79	peak
2	2390.000	4.34	28.52	40.97	72.32	64.21	74.00	-9.79	peak
3 *	2412.000	4.38	28.56	40.98	109.17	101.13	74.00	27.13	peak



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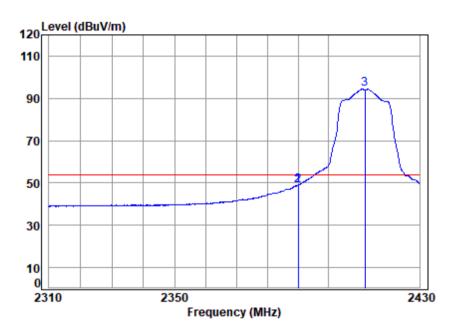
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 Band edge Note : 2.4G WIFI 11G

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968								_
2390.000 * 2412.000								Average Average



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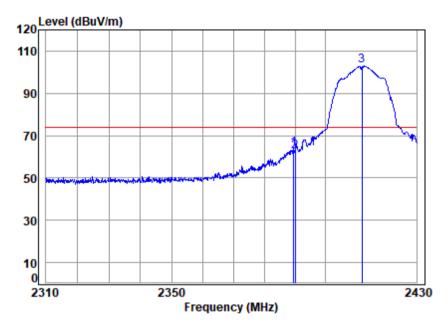
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Report No.: SZEM200800737505

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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2412 Band edge

: 2.4G WTFT 11G Note

_		10 111								
		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		
	2389.605	4.34	28.52	40.97	72.18	64.07	74.00	-9.93	peak	
	2390.000								-	
*	2412.000	4.38	28.56	40.98	110.97	102.93	74.00	28.93	peak	



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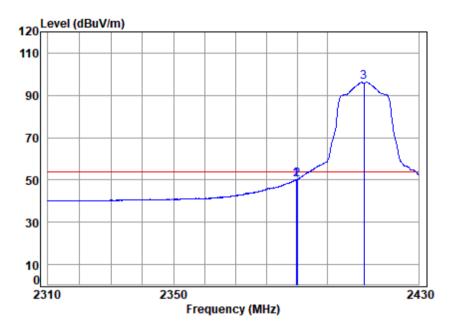
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Report No.: SZEM200800737505

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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2412 Band edge

: 2.4G WTFT 11G Note

_	. 2.	TO WITE	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		
	2389.726	4.34	28.52	40.97	58.43	50.32	54.00	-3.68	Average	
	2390.000	4.34	28.52	40.97	58.41	50.30	54.00	-3.70	Average	
*	2412 000	4 38	28 56	40 98	104 21	96 17	54 00	42 17	Average	



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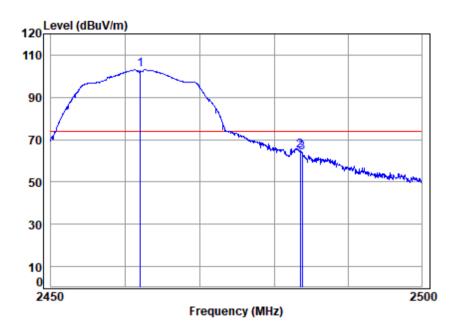
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Report No.: SZEM200800737505

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2462 Band edge

Note : 2.4G WIFI 11G

2483.790

4.49

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 1 * 2462.000 4.46 28.64 41.00 111.10 103.20 74.00 29.20 peak 2483.500 4.49 28.67 41.01 72.62 64.77 74.00 -9.23 peak

28.67 41.01 71.69 63.84 74.00 -10.16 peak



3

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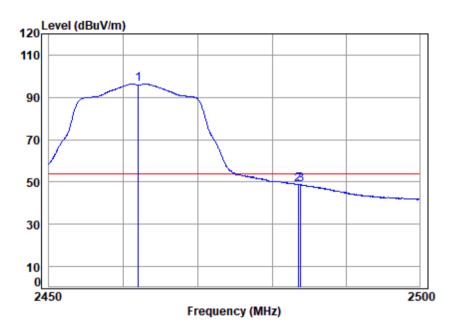
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Report No.: SZEM200800737505

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11q; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 07375CR/07376CR Job No Mode : 2462 Band edge

Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
*	2462.000 2483.500								Average Average
	2483.890								Average



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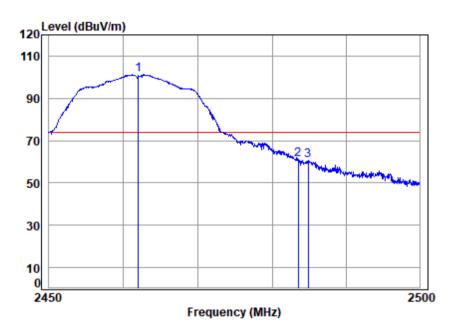
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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 Band edge : 2.4G WTFT 11G Note

000		10 111	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 *	2462.000	4.46	28.64	41.00	109.13	101.23	74.00	27.23	peak	
2	2483.500	4.49	28.67	41.01	68.88	61.03	74.00	-12.97	peak	
3	2484 844	4 50	28 68	41 91	68 46	60 63	74 99	-13 37	neak	



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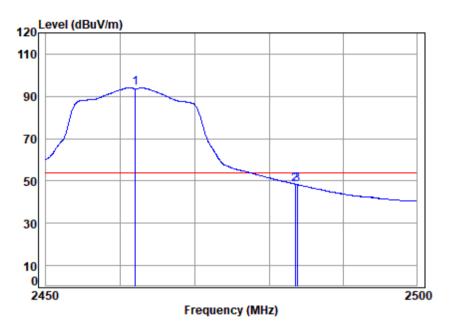
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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 Band edge · 2 4G WIFT 11G Note

oce	. 2	+O MII	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 *	2462.000	4.46	28.64	41.00	101.97	94.07	54.00	40.07	Average	
2	2483.500	4.49	28.67	41.01	56.35	48.50	54.00	-5.50	Average	
3	2483.790	4.49	28.67	41.01	56.15	48.30	54.00	-5.70	Average	



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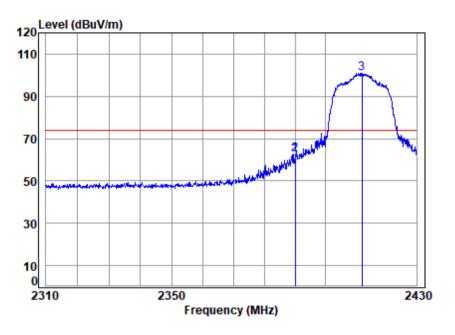
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 Band edge : 2.4G WTFT 11N20 Note

	. 2	TO WILL	1 11112						
		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	4.34	28.52	40.97	70.62	62.51	74.00	-11.49	peak
	2390.000	4.34	28.52	40.97	70.62	62.51	74.00	-11.49	peak
*	2412 000	4 38	28 56	40 98	109 07	101 03	74 99	27 03	neak



1 2

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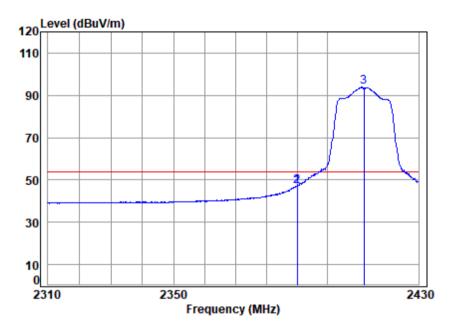
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.968 2390.000								Average Average
* 2412.000	4.38	28.56	40.98	101.87	93.83	54.00	39.83	Average



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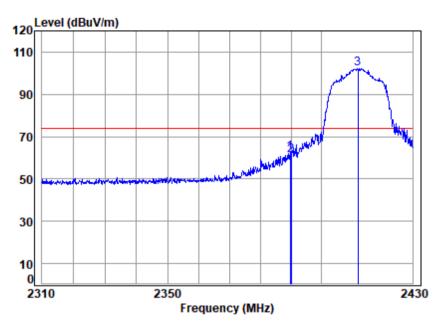
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR 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 dBuV dBuV/m dBuV/m dB dB/m dB

28.52 40.97 2389.726 4.34 70.67 62.56 74.00 -11.44 peak 1 2390.000 4.34 28.52 40.97 69.41 61.30 74.00 -12.70 peak 3 * 2412.000 4.38 28.56 40.98 110.37 102.33 74.00 28.33 peak



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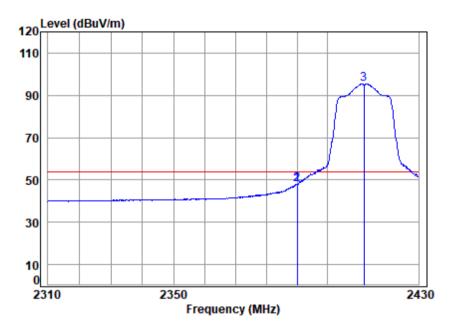
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 07375CR/07376CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

	Freq						Limit Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.34	28.52	40.97	56.06	47.95	54.00	-6.05	Average
2	2390.000	4.34	28.52	40.97	56.06	47.95	54.00	-6.05	Average
3 *	2412.000	4.38	28.56	40.98	103.50	95.46	54.00	41.46	Average



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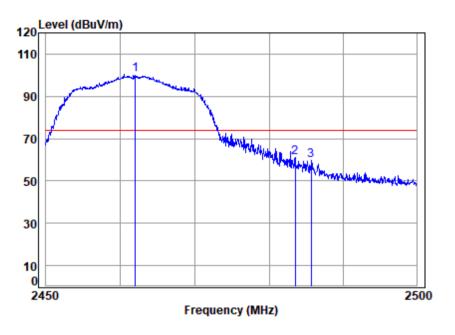
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 Band edge : 2.4G WTFT 11N20 Note

OCC	. 2.	TO WILL	1 11112							
		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 *	2462.000	4.46	28.64	41.00	108.07	100.17	74.00	26.17	peak	
2	2483.500	4.49	28.67	41.01	69.13	61.28	74.00	-12.72	peak	
3	2485 697	4.50	28 68	41 91	67.46	59.63	74.00	-14.37	neak	



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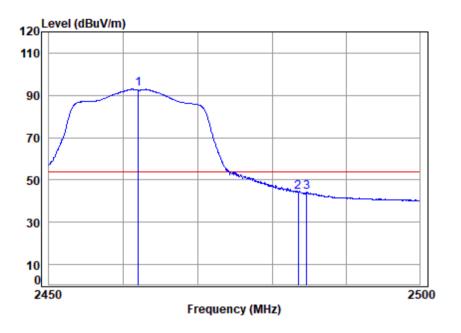
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 07375CR/07376CR Job No Mode : 2462 Band edge Note : 2.4G WIFI 11N20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	100.78	92.88	54.00	38.88	Average
2	2483.500	4.49	28.67	41.01	52.10	44.25	54.00	-9.75	Average
3	2484.693	4.50	28.68	41.01	52.17	44.34	54.00	-9.66	Average



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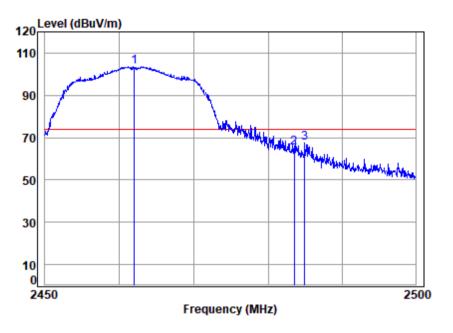
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2462 Band edge

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	
1 *	4 2462.000	4.46	28.64	41.00	111.65	103.75	74.00	29.75	peak
2	2483.500	4.49	28.67	41.01	73.00	65.15	74.00	-8.85	peak
3	2484.944	4.50	28.68	41.01	75.13	67.30	74.00	-6.70	peak



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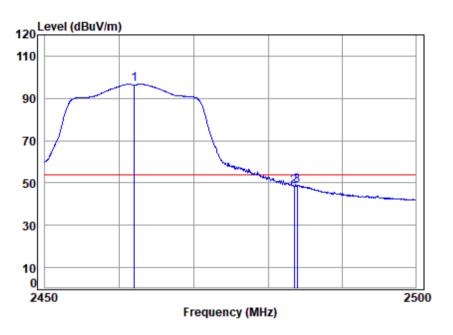
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2462 Band edge

Note : 2.4G WIFI 11N20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								_
2	2483.500	4.49	28.67	41.01	56.18	48.33	54.00	-5.67	Average
3	2483.940	4.49	28.67	41.01	56.83	48.98	54.00	-5.02	Average



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15.205, 15.209, Subpart C 15.247

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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: 23.5 °C Humidity: 58.5 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

	Tool made Decomplies										
Pre-scan / Final test	Mode Code	Description									
Pre-scan	10	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). Only the data of worst case is recorded in the report.									
Final test	11	Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.									



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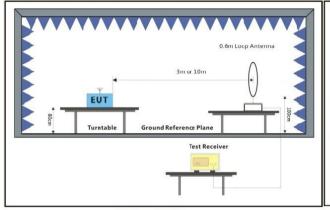
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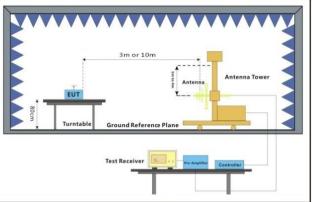


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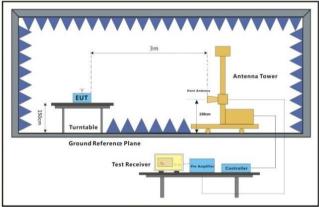
7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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.
- 4) 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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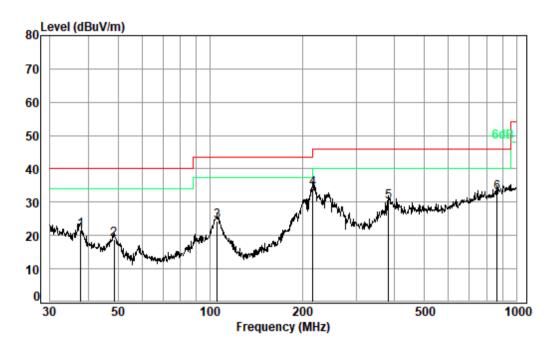


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Below 1GHz:

Test Mode: 11; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 07375CR

Test Mode: 11

		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	27 01	0 69	10.25	27 71	20 50	21 72	40.00	10 20	OD
1	3/.01	0.00	19.25	27.71	29.50	21./2	40.00	-10.20	٧P
2	48.50	0.70	14.47	27.69	31.31	18.79	40.00	-21.21	QP
3	105.64	1.11	13.83	27.57	36.99	24.36	43.50	-19.14	QP
4 pp	216.78	1.36	16.32	27.09	43.57	34.16	46.00	-11.84	QP
5	382.59	2.25	22.23	27.31	32.88	30.05	46.00	-15.95	QP
6	866.09	3.43	28.61	27.35	28.29	32.98	46.00	-13.02	QP



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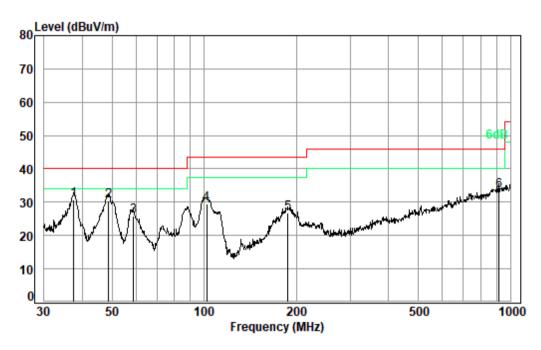
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Test Mode: 11; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 07375CR

Test Mode: 11

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	37.55	0.68	19.31	27.71	38.59	30.87	40.00	-9.13	QP
2	48.84	0.70	14.39	27.68	43.04	30.45	40.00	-9.55	QP
3	58.82	0.79	13.03	27.67	39.80	25.95	40.00	-14.05	QP
4	102.00	1.10	13.94	27.60	42.14	29.58	43.50	-13.92	QP
5	187.75	1.19	15.48	27.19	37.21	26.69	43.50	-16.81	QP
6	919.29	3.52	29.19	27.06	27.87	33.52	46.00	-12.48	OP.



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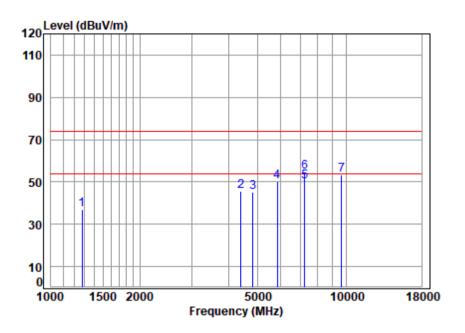


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Above 1GHz:

Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 TX RSE Note : 2.4G WIFI 11B

	Frea			Preamp Factor					Pomonic
	Freq	LUSS	ractor	ractor.	rever	rever	Line	LIMIT	Kelliarik
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	2.90	24.92	40.34	49.59	37.07	74.00	-36.93	peak
2	4405.090	6.67	33.44	42.48	48.12	45.75	74.00	-28.25	peak
3	4824.000	7.12	34.00	42.78	47.03	45.37	74.00	-28.63	peak
4	5847.517	8.24	34.95	42.33	49.45	50.31	74.00	-23.69	peak
5	7236.000	8.77	36.10	41.56	46.93	50.24	54.00	-3.76	Average
6	7236.000	8.77	36.09	41.56	51.38	54.68	74.00	-19.32	peak
7	9648.000	10.79	37.69	38.51	43.19	53.16	74.00	-20.84	peak



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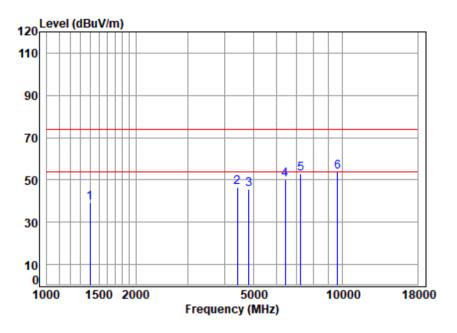
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2412 TX RSE

Note : 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	
	1200 226	2 10	25 42	40.44	F4 40	20.26	74.00	24 74	
L	1398.336	3.10	25.42	40.44	51.18	39.26	74.00	-34./4	реак
2	4417.841	6.68	33.46	42.49	48.77	46.42	74.00	-27.58	peak
3	4824.000	7.12	34.00	42.78	47.35	45.69	74.00	-28.31	peak
ļ	6414.167	8.28	35.52	42.00	48.43	50.23	74.00	-23.77	peak
5	7236.000	8.77	36.09	41.56	49.63	52.93	74.00	-21.07	peak
5	9648.000	10.79	37.69	38.51	43.85	53.82	74.00	-20.18	peak



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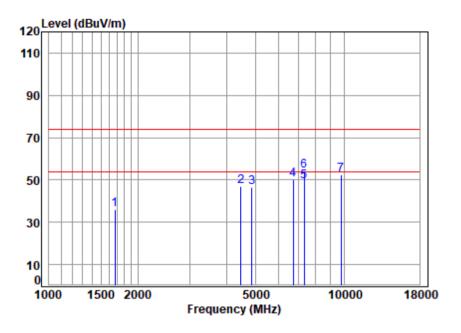
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2437 TX RSE Note : 2.4G WIFI 11B

	Frea			Preamp Factor					Remark
	11 64	2033	i ac coi	i ac coi	Level	Level	LINC	LIMIC	Kellidi K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.41	26.56	40.62	46.73	36.08	74.00	-37.92	peak
2	4469.214	6.73	33.55	42.53	49.26	47.01	74.00	-26.99	peak
3	4874.000	7.17	34.05	42.82	48.04	46.44	74.00	-27.56	peak
4	6717.762	8.40	35.73	41.83	47.96	50.26	74.00	-23.74	peak
5	7311.000	8.84	36.15	41.53	46.02	49.48	54.00	-4.52	Average
6	7311.000	8.84	36.15	41.53	50.76	54.22	74.00	-19.78	peak
7	9748.000	10.76	37.75	38.37	42.33	52.47	74.00	-21.53	peak



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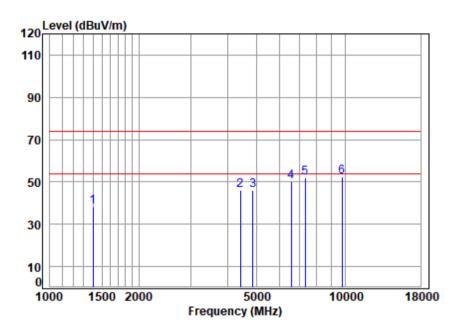
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR

Mode : 2437 TX RSE Note : 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	
L	1402.384	3.11	25.43	40.44	50.04	38.14	74.00	-35.86	peak
)	4417.841	6.68	33.46	42.49	48.60	46.25	74.00	-27.75	peak
3	4874.000	7.17	34.05	42.82	47.54	45.94	74.00	-28.06	peak
ļ	6564.209	8.31	35.64	41.92	48.31	50.34	74.00	-23.66	peak
5	7311.000	8.84	36.15	41.53	48.67	52.13	74.00	-21.87	peak
5	9748.000	10.76	37.75	38.37	42.16	52.30	74.00	-21.70	peak



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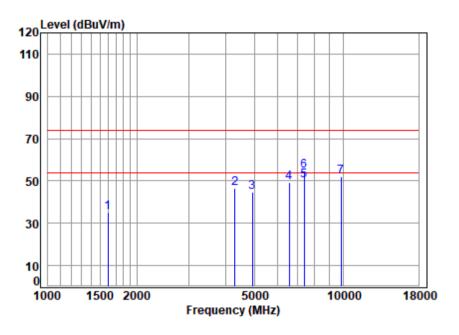
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 TX RSE Note : 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.57	46.20	35.22	74.00	-38.78	peak
2	4304.400	6.58	33.26	42.40	49.25	46.69	74.00	-27.31	peak
3	4924.000	7.22	34.11	42.85	46.14	44.62	74.00	-29.38	peak
4	6564.209	8.31	35.64	41.92	47.43	49.46	74.00	-24.54	peak
5	7386.000	8.91	36.21	41.49	46.58	50.21	54.00	-3.79	Average
6	7386.000	8.91	36.21	41.49	51.20	54.83	74.00	-19.17	peak
7	9848.000	10.73	37.81	38.22	41.81	52.13	74.00	-21.87	peak



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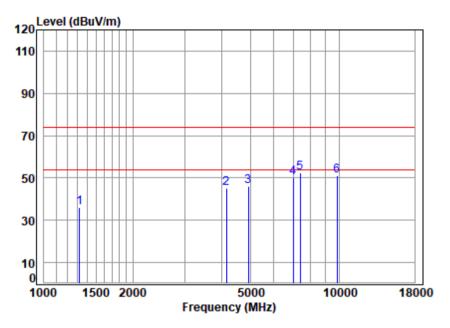
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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR

Mode : 2462 TX RSE Note : 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	1319.794	2.98	25.11	40.38	48.37	36.08	74.00	-37.92	peak
2	4145.664	6.43	32.97	42.28	48.21	45.33	74.00	-28.67	peak
3	4924.000	7.22	34.11	42.85	47.40	45.88	74.00	-28.12	peak
4	6995.172	8.54	35.90	41.69	47.31	50.06	74.00	-23.94	peak
5	7386.000	8.91	36.21	41.49	48.75	52.38	74.00	-21.62	peak
6	9848.000	10.73	37.81	38.22	40.99	51.31	74.00	-22.69	peak



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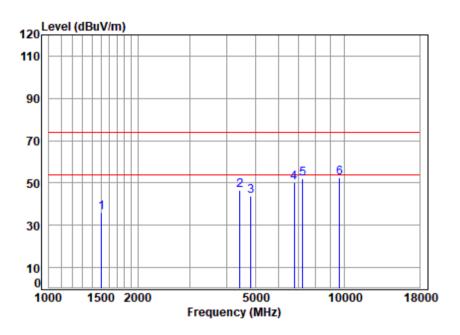
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 TX RSE Note : 2.4G WIFI 11G

		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	1507.470	3.27	25.83	40.51	47.25	35.84	74.00	-38.16	peak
2	4430.628	6.70	33.48	42.50	48.73	46.41	74.00	-27.59	peak
3	4824.000	7.12	34.00	42.78	45.33	43.67	74.00	-30.33	peak
4	6776.265	8.43	35.77	41.80	47.69	50.09	74.00	-23.91	peak
5	7236.000	8.77	36.09	41.56	48.54	51.84	74.00	-22.16	peak
6	9648.000	10.79	37.69	38.51	42.66	52.63	74.00	-21.37	peak



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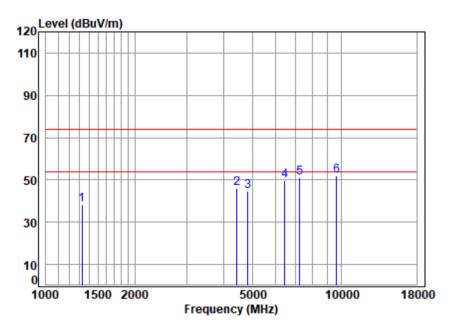
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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2412 TX RSE

Mode : 2412 IX KSE Note : 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	2.98	25.12	40.38	50.65	38.37	74.00	-35.63	peak
2	4443.453	6.71	33.50	42.51	48.26	45.96	74.00	-28.04	peak
3	4824.000	7.12	34.00	42.78	46.44	44.78	74.00	-29.22	peak
4	6432.732	8.28	35.54	41.99	48.07	49.90	74.00	-24.10	peak
5	7236.000	8.77	36.09	41.56	47.64	50.94	74.00	-23.06	peak
6	9648.000	10.79	37.69	38.51	42.22	52.19	74.00	-21.81	peak



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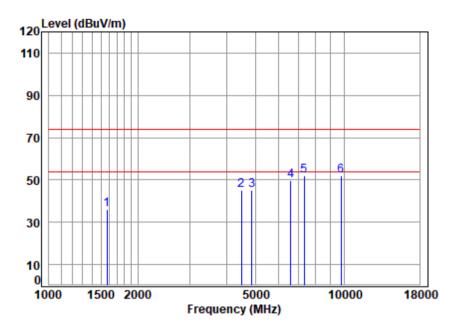
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2437 TX RSE Note : 2.4G WIFI 11G

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.33	26.14	40.55	47.23	36.15	74.00	-37.85	peak
2	4482.150	6.74	33.57	42.54	47.32	45.09	74.00	-28.91	peak
3	4874.000	7.17	34.05	42.82	46.62	45.02	74.00	-28.98	peak
4	6583.209	8.32	35.65	41.91	47.58	49.64	74.00	-24.36	peak
5	7311.000	8.84	36.15	41.53	48.55	52.01	74.00	-21.99	peak
6	9748.000	10.76	37.75	38.37	41.67	51.81	74.00	-22.19	peak



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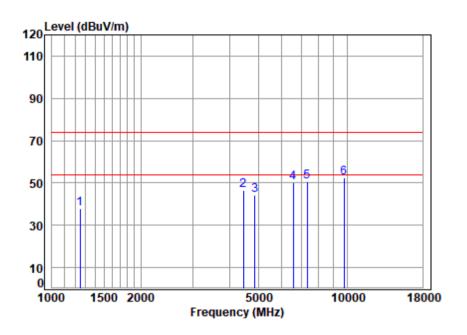
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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 07375CR/07376CR Mode : 2437 TX RSE : 2.4G WIFI 11G Note

_		10 111	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	
	1245.663	2.85	24.79	40.32	50.69	38.01	74.00	-35.99	peak
	4456.315	6.72	33.53	42.52	48.74	46.47	74.00	-27.53	peak
	4874.000	7.17	34.05	42.82	46.05	44.45	74.00	-29.55	peak
	6564.209	8.31	35.64	41.92	48.14	50.17	74.00	-23.83	peak
	7311.000	8.84	36.15	41.53	47.23	50.69	74.00	-23.31	peak
	9748 000	10 76	37 75	38 37	42 19	52 33	74 99	-21 67	neak



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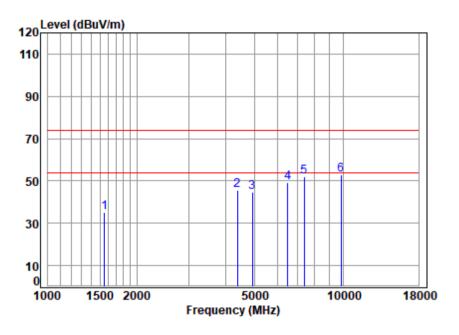
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11q; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 TX RSE Note : 2.4G WIFI 11G

		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	1556.169	3.31	26.06	40.54	46.25	35.08	74.00	-38.92	peak
2	4392.376	6.66	33.42	42.47	48.14	45.75	74.00	-28.25	peak
3	4924.000	7.22	34.11	42.85	46.14	44.62	74.00	-29.38	peak
4	6488.754	8.28	35.59	41.96	47.43	49.34	74.00	-24.66	peak
5	7386.000	8.91	36.21	41.49	48.50	52.13	74.00	-21.87	peak
6	9848.000	10.73	37.81	38.22	42.49	52.81	74.00	-21.19	peak



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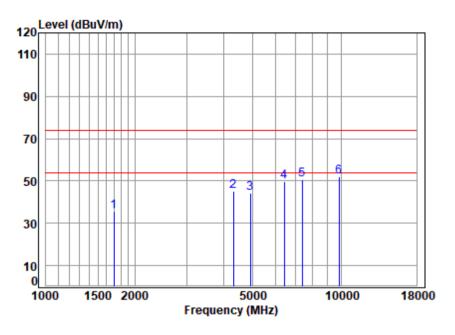
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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR Mode : 2462 TX RSE

Mode : 2462 IX KSE Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	d 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	3.43	26.66	40.63	46.33	35.79	74.00	-38.21	peak
2	4316.859	6.59	33.28	42.41	47.91	45.37	74.00	-28.63	peak
3	4924.000	7.22	34.11	42.85	45.71	44.19	74.00	-29.81	peak
4	6414.167	8.28	35.52	42.00	47.94	49.74	74.00	-24.26	peak
5	7386.000	8.91	36.21	41.49	47.00	50.63	74.00	-23.37	peak
6	9848.000	10.73	37.81	38.22	41.52	51.84	74.00	-22.16	peak



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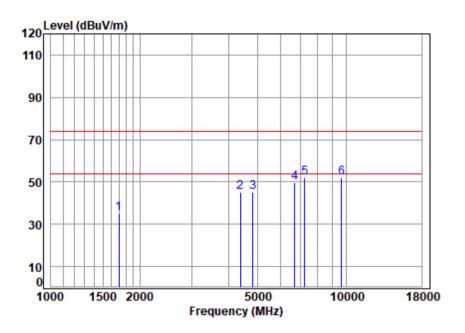
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2412 TX RSE

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	
1	1702.042	3.43	26.68	40.63	45.54	35.02	74.00	-38.98	peak
2	4379.699	6.65	33.39	42.46	47.66	45.24	74.00	-28.76	peak
3	4824.000	7.12	34.00	42.78	46.64	44.98	74.00	-29.02	peak
4	6698.373	8.39	35.72	41.84	47.45	49.72	74.00	-24.28	peak
5	7236.000	8.77	36.09	41.56	48.52	51.82	74.00	-22.18	peak
6	9648.000	10.79	37.69	38.51	42.02	51.99	74.00	-22.01	peak



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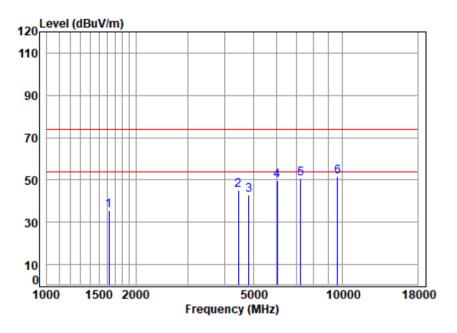
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR

: 2412 TX RSE Mode

Note : 2.4G WIFI 11N20 Ant Preamp Cable Read Limit 0ver

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.36	26.34	40.58	46.48	35.60	74.00	-38.40	peak
2	4456.315	6.72	33.53	42.52	47.38	45.11	74.00	-28.89	peak
3	4824.000	7.12	34.00	42.78	44.70	43.04	74.00	-30.96	peak
4	6036.421	8.26	35.14	42.22	48.44	49.62	74.00	-24.38	peak
5	7236.000	8.77	36.09	41.56	47.54	50.84	74.00	-23.16	peak
6	9648.000	10.79	37.69	38.51	41.52	51.49	74.00	-22.51	peak



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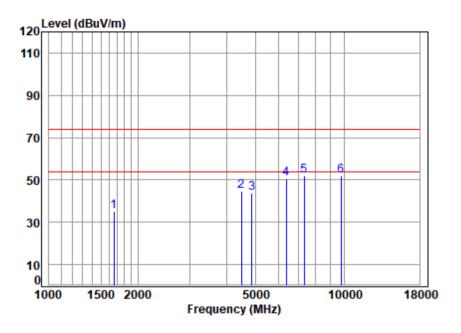
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2437 TX RSE

Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	l 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	3.40	26.52	40.61	45.94	35.25	74.00	-38.75	peak
2	4482.150								•
3	4874.000	7.17	34.05	42.82	45.58	43.98	74.00	-30.02	peak
4	6377.195	8.28	35.48	42.02	48.85	50.59	74.00	-23.41	peak
5	7311.000	8.84	36.15	41.53	48.57	52.03	74.00	-21.97	peak
6	9748.000	10.76	37.75	38.37	42.03	52.17	74.00	-21.83	peak



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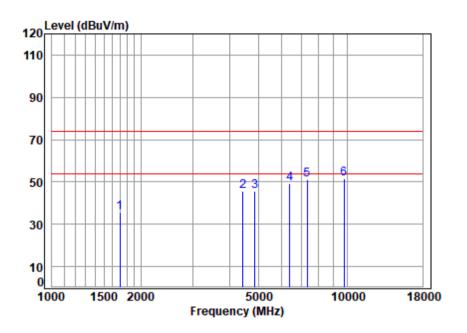
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 07375CR/07376CR

Mode : 2437 TX RSE

Note : 2.4G WIFI 11N20

						Limit			
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB		——dB		dBuV/m	dBuV/m	dB	
	PHIZ	ub	ub/III	ub	abav	ubuv/III	ubuv/III	ub	
1	1697.129	3.43	26.66	40.63	45.90	35.36	74.00	-38.64	peak
2	4443.453	6.71	33.50	42.51	48.00	45.70	74.00	-28.30	peak
3	4874.000	7.17	34.05	42.82	47.05	45.45	74.00	-28.55	peak
4	6395.654	8.28	35.50	42.01	47.71	49.48	74.00	-24.52	peak
5	7311.000	8.84	36.15	41.53	47.86	51.32	74.00	-22.68	peak
6	9748.000	10.76	37.75	38.37	41.21	51.35	74.00	-22.65	peak



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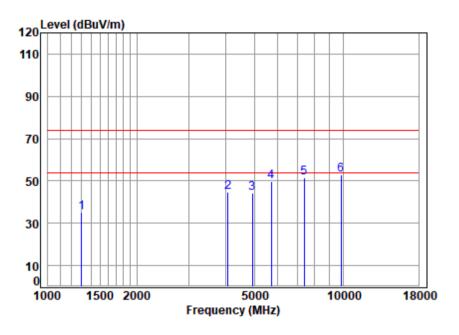
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 07375CR/07376CR Mode : 2462 TX RSE

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	
1	1300.858	2.94	25.03	40.36	47.72	35.33	74.00	-38.67	peak
2	4074.388	6.36	32.84	42.22	47.52	44.50	74.00	-29.50	peak
3	4924.000	7.22	34.11	42.85	45.74	44.22	74.00	-29.78	peak
4	5713.856	8.22	34.82	42.42	49.13	49.75	74.00	-24.25	peak
5	7386.000	8.91	36.21	41.49	47.74	51.37	74.00	-22.63	peak
6	9848.000	10.73	37.81	38.22	42.59	52.91	74.00	-21.09	peak



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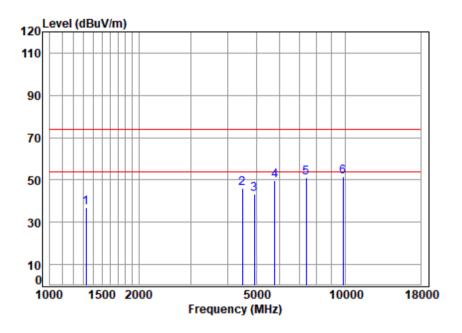
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 07375CR/07376CR

Mode : 2462 TX RSE 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		
1	1327.446	2.99	25.14	40.38	49.42	37.17	74.00	-36.83	peak	
2	4495.125	6.76	33.59	42.55	48.17	45.97	74.00	-28.03	peak	
3	4924.000	7.22	34.11	42.85	44.73	43.21	74.00	-30.79	peak	
4	5780.300	8.23	34.89	42.38	48.86	49.60	74.00	-24.40	peak	
5	7386.000	8.91	36.21	41.49	47.64	51.27	74.00	-22.73	peak	
6	9848.000	10.73	37.81	38.22	41.46	51.78	74.00	-22.22	peak	



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8 Emission Test Results

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

Test Requirement: 47 CFR Part 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco (MIII-)	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 30	MHz						

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 55 % RH Atmospheric Pressure: 1000 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode_Keep the EUT in charging and 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). Only the data of worst case is recorded in the report.



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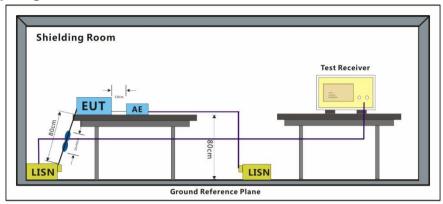
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8.1.3 Test Setup Diagram



8.1.4 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/50µH + 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: LISN=Read Level+ Cable Loss+ LISN Factor



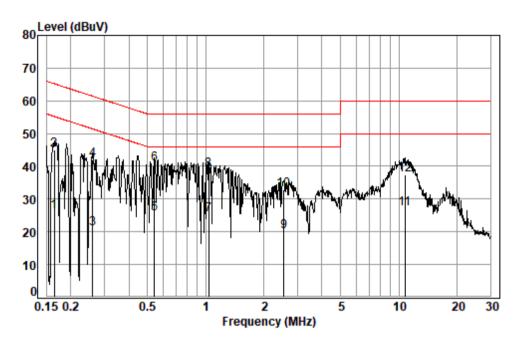
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Test Mode: 11: Line: Live line



Site : Shielding Room

Condition: Line Job No. : 07375CR

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1641	0.01	9.59	16.57	26.17	55.25	-29.08	Average
2	0.1641	0.01	9.59	35.48	45.08	65.25	-20.17	QP
3	0.2603	0.03	9.59	11.40	21.02	51.42	-30.40	Average
4	0.2603	0.03	9.59	32.28	41.90	61.42	-19.52	QP
5	0.5436	0.06	9.59	16.04	25.69	46.00	-20.31	Average
6	0.5436	0.06	9.59	31.21	40.86	56.00	-15.14	QP
7	1.0375	0.09	9.60	15.48	25.17	46.00	-20.83	Average
8	1.0375	0.09	9.60	29.30	38.99	56.00	-17.01	QP
9	2.5400	0.16	9.64	10.38	20.18	46.00	-25.82	Average
10	2.5400	0.16	9.64	22.99	32.79	56.00	-23.21	QP
11	10.7900	0.18	9.86	17.12	27.16	50.00	-22.84	Average
12	10.7900	0.18	9.86	27.28	37.32	60.00	-22.68	QP



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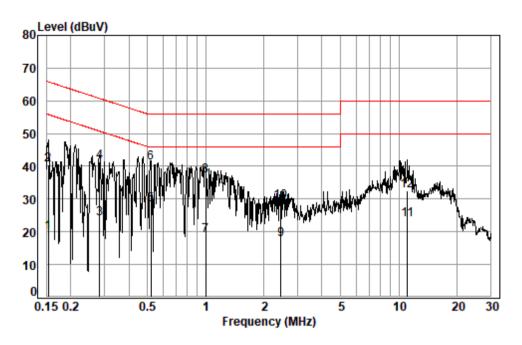
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Test Mode: 11; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 07375CR

Test mode: 11

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
								
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.01	9.55	10.22	19.78	55 82	-36 04	Average
								_
2	0.1532	0.01	9.55	30.78	40.34	65.82	-25.48	QР
3	0.2833	0.04	9.54	14.34	23.92	50.72	-26.80	Average
4	0.2833	0.04	9.54	31.85	41.43	60.72	-19.29	QP
5	0.5210	0.06	9.54	18.75	28.35	46.00	-17.65	Average
6	0.5210	0.06	9.54	31.33	40.93	56.00	-15.07	QP
7	0.9997	0.09	9.55	9.24	18.88	46.00	-27.12	Average
8	0.9997	0.09	9.55	27.51	37.15	56.00	-18.85	QP
9	2.4606	0.16	9.57	7.90	17.63	46.00	-28.37	Average
10	2.4606	0.16	9.57	19.60	29.33	56.00	-26.67	QP
11	11.0797	0.18	9.95	13.66	23.79	50.00	-26.21	Average
12	11.0797	0.18	9.95	22.44	32.57	60.00	-27.43	QP



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Test Setup Photo 9

Please refer to setup photos.

10 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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11 Appendix

Appendix for 15.247

1. 6dB Bandwidth & 99% Occupied Bandwidth

1.1 Test Result

Took Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bai	Vandiat	
Test Mode				Test Result (MHz)	Limits (MHz)	Verdict
	2412	SISO	1	7.574	≥0.5	PASS
802.11b	2437	SISO	1	7.570	≥0.5	PASS
	2462	SISO	1	7.550	≥0.5	PASS
	2412	SISO	1	15.437	≥0.5	PASS
802.11g	2437	SISO	1	15.220	≥0.5	PASS
	2462	SISO	1	15.192	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	15.198	≥0.5	PASS
	2437	SISO	1	15.232	≥0.5	PASS
	2462	SISO	1	15.179	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth Test Result (MHz)			
rest Mode							
	2412	SISO	1	11.984	Only for Report Use		
802.11b	2437	SISO	1	11.925	Only for Report Use		
	2462 SISO		1	11.943	Only for Report Use		
	2412	SISO	1	16.976	Only for Report Use		
802.11g	2437	SISO	1	16.938	Only for Report Use		
	2462	SISO	1	16.779	Only for Report Use		
	2412	SISO	1	17.920	Only for Report Use		
802.11n(HT20)	2437	SISO	1	17.902	Only for Report Use		
	2462	SISO	1	17.843	Only for Report Use		



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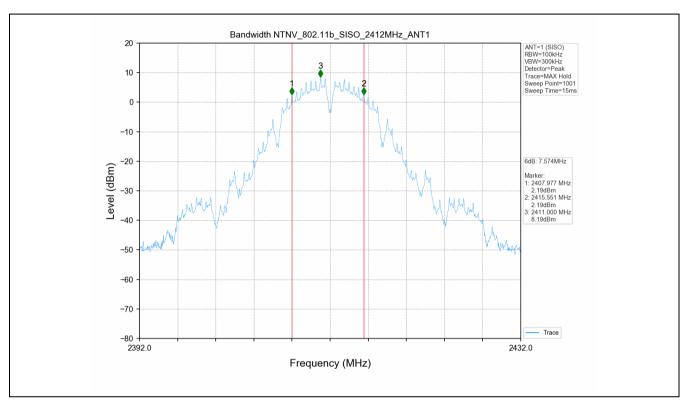
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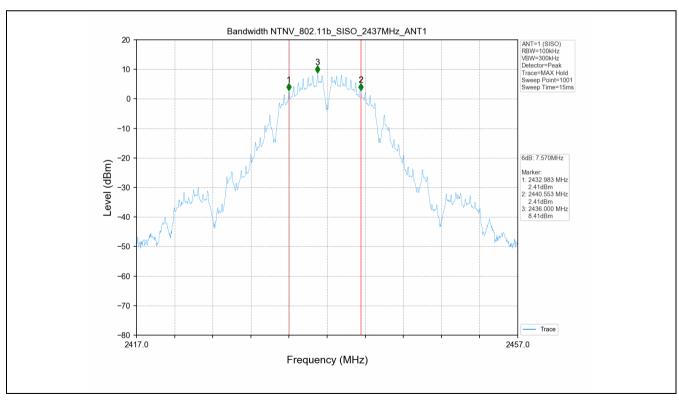


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1.2 Test Graph - 6dB Bandwidth







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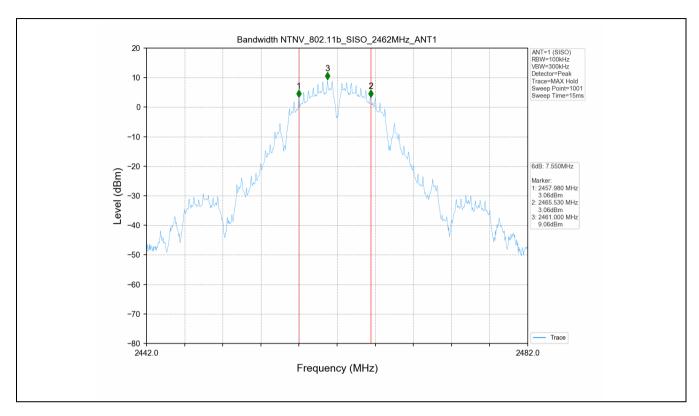
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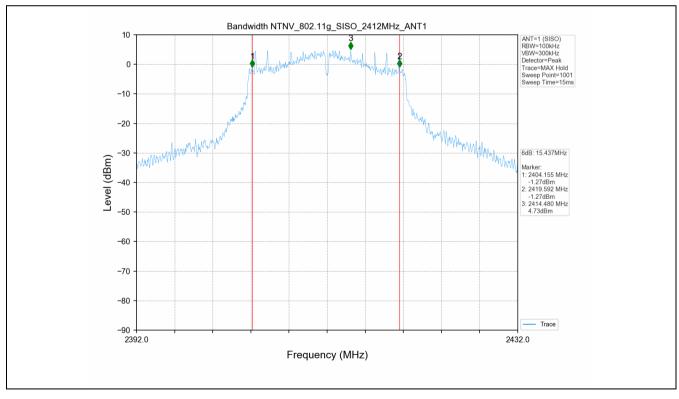
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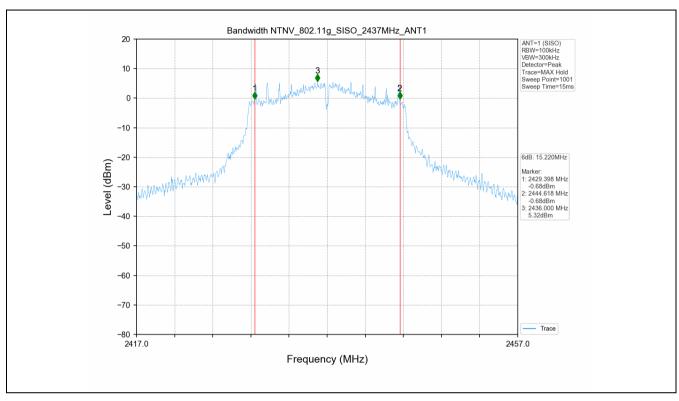
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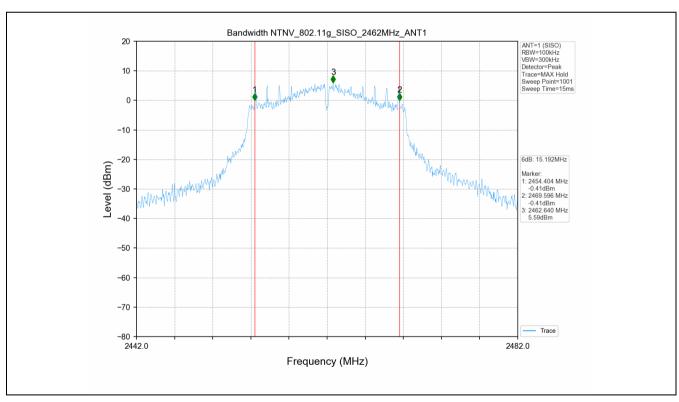
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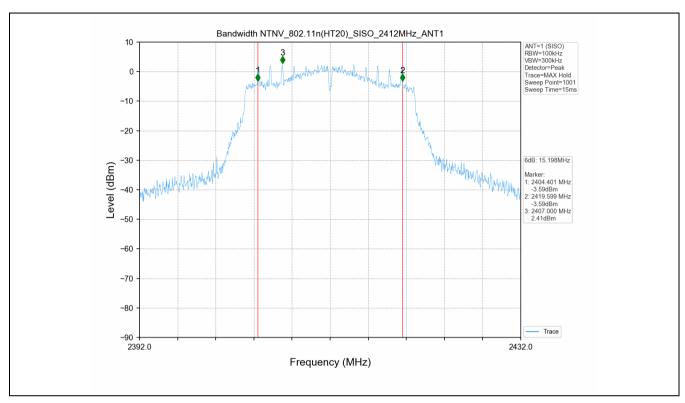
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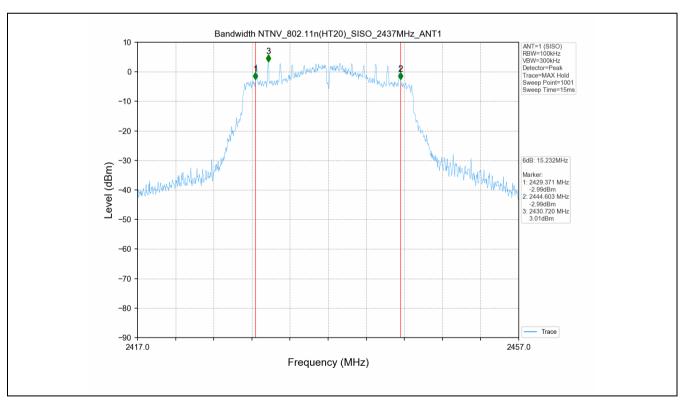
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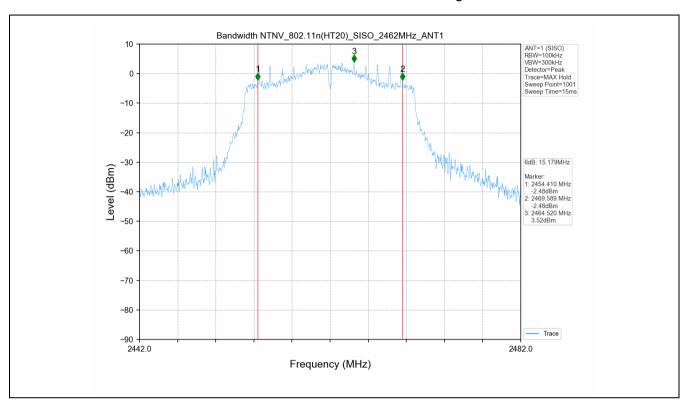
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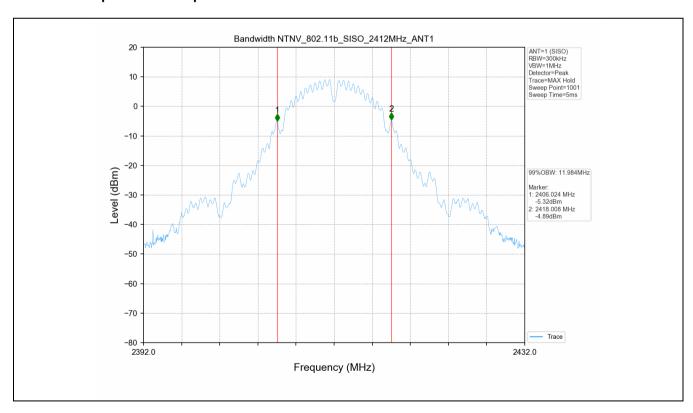


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1.3 Test Graph - 99% Occupied Bandwidth





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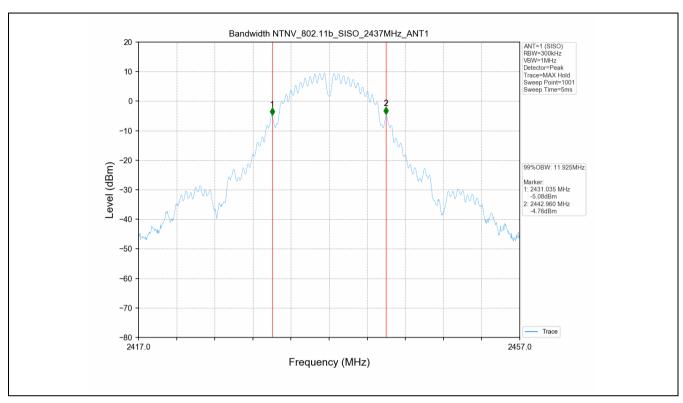
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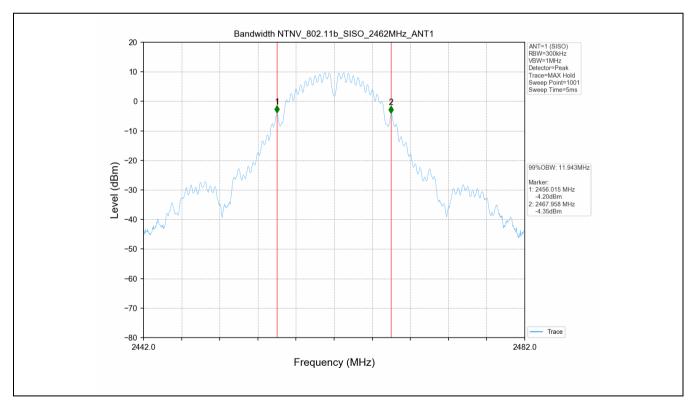
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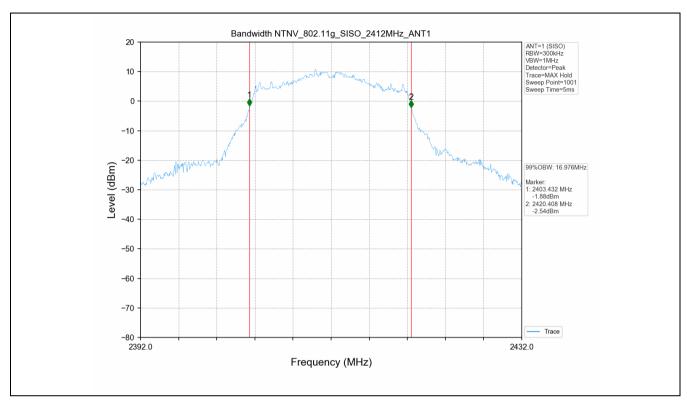
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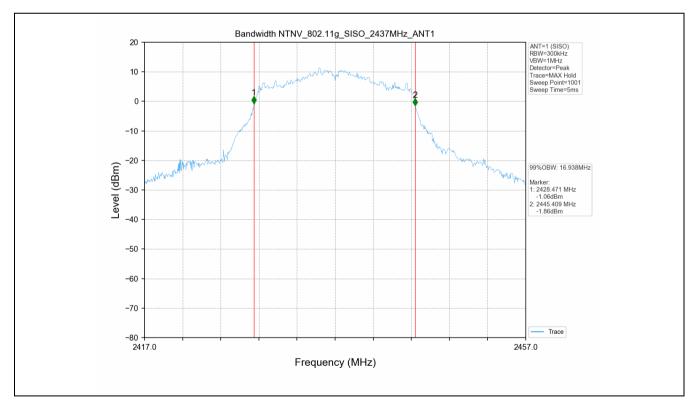
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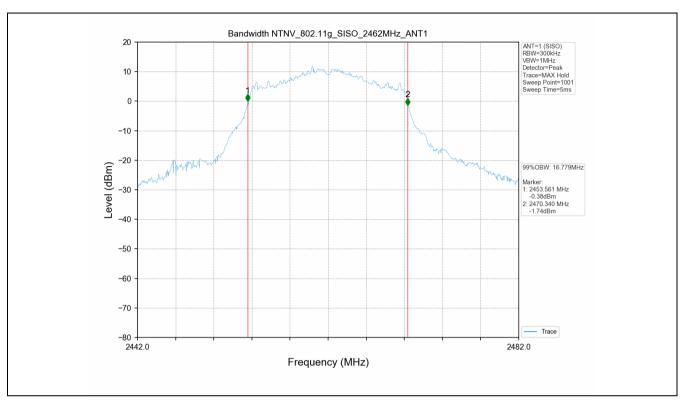
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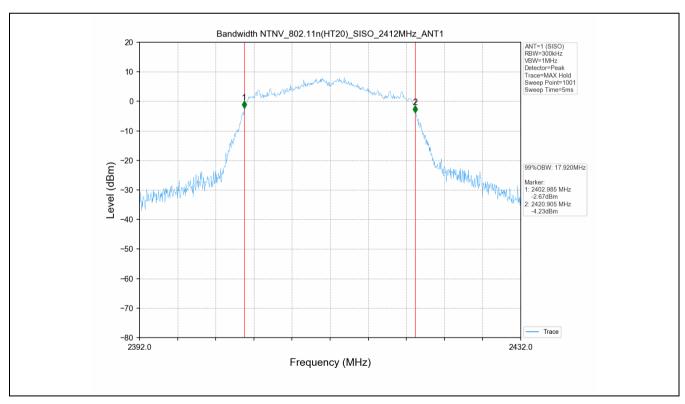
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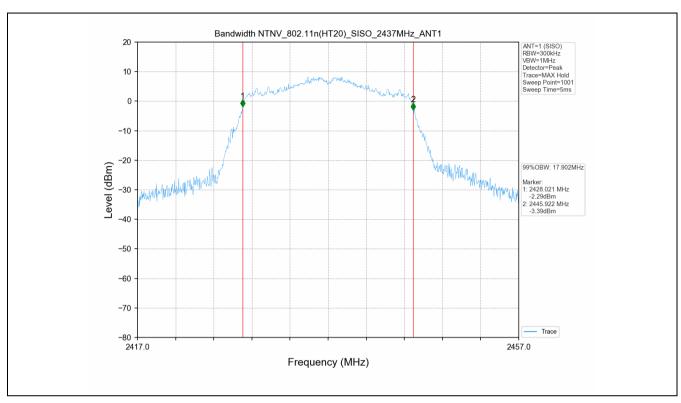
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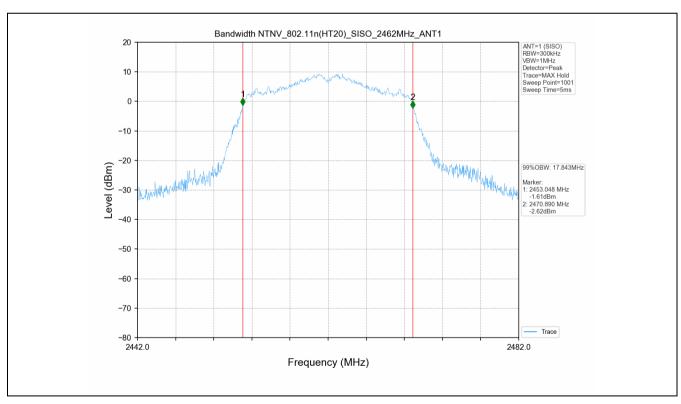
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Average Output Power (dBm)	Limits (dBm)	Verdict	
	` ′		Ant 1			
	2412	SISO	15.52	30	PASS	
802.11b	2437	SISO	15.89	30	PASS	
	2462	SISO	16.30	30	PASS	
	2412	SISO	14.24	30	PASS	
802.11g	2437	SISO	14.13	30	PASS	
	2462	SISO	14.05	30	PASS	
	2412	SISO	13.44	30	PASS	
802.11n(HT20)	2437	SISO	14.14	30	PASS	
	2462	SISO	14.63	30	PASS	



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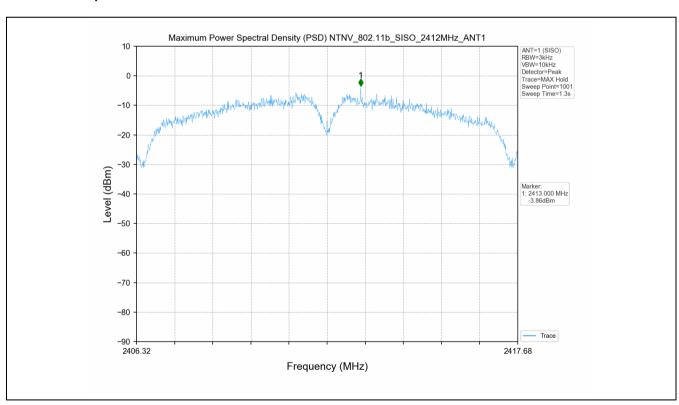
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3. Maximum Power Spectral Density (PSD)

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1			
	2412	SISO	-3.86	≤8	PASS	
802.11b	2437	SISO	-5.05	≤8	PASS	
	2462	SISO	-4.31	≤8	PASS	
	2412	SISO	-7.32	≤8	PASS	
802.11g	2437	SISO	-6.94	≤8	PASS	
	2462	SISO	-6.31	≥8	PASS	
802.11n(HT20)	2412	SISO	-8.63	≤8	PASS	
	2437	SISO	-8.89	≤8	PASS	
	2462	SISO	-7.57	≤8	PASS	

3.2 Test Graph





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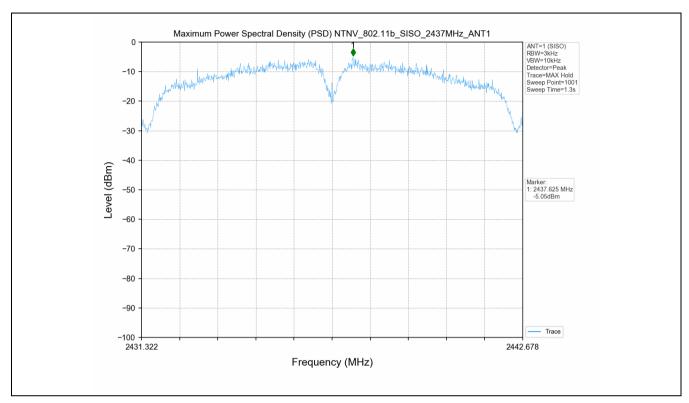
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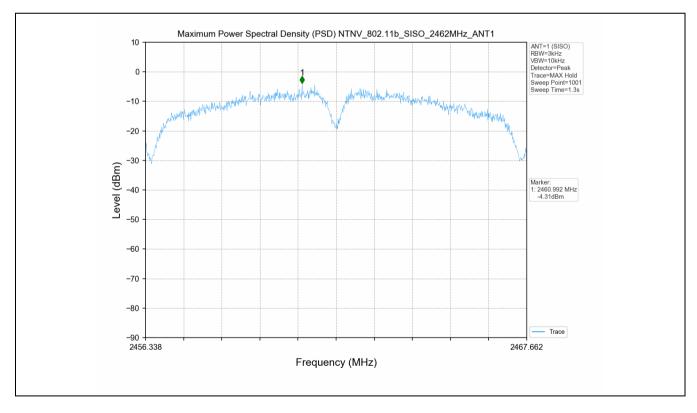
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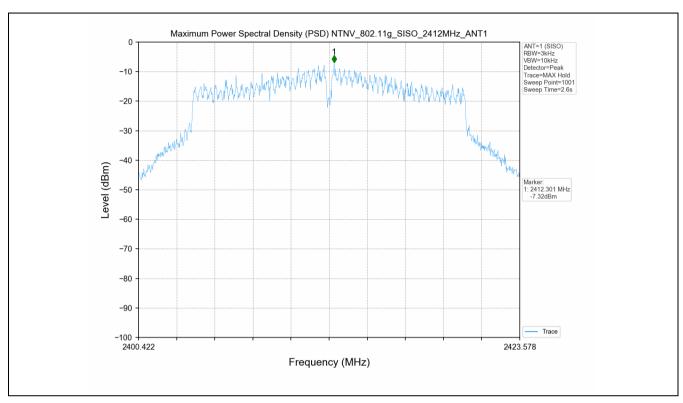
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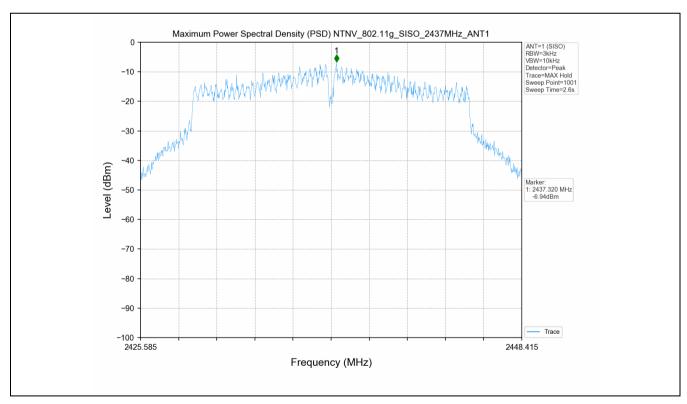
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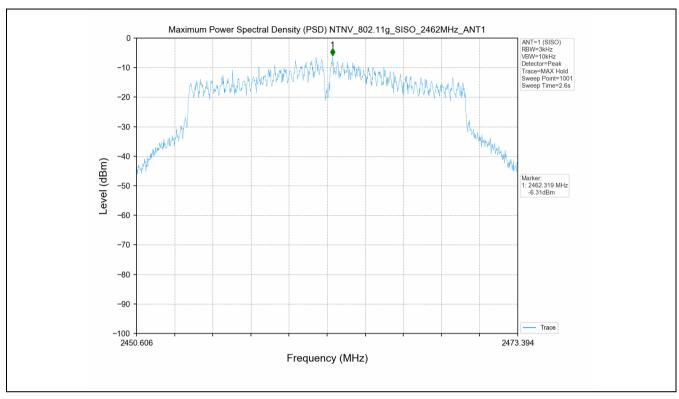
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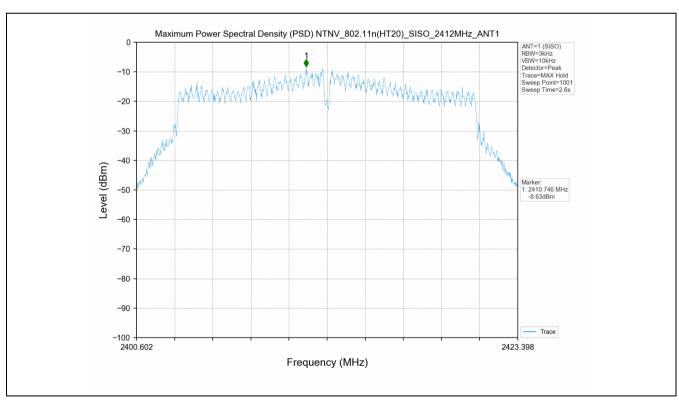
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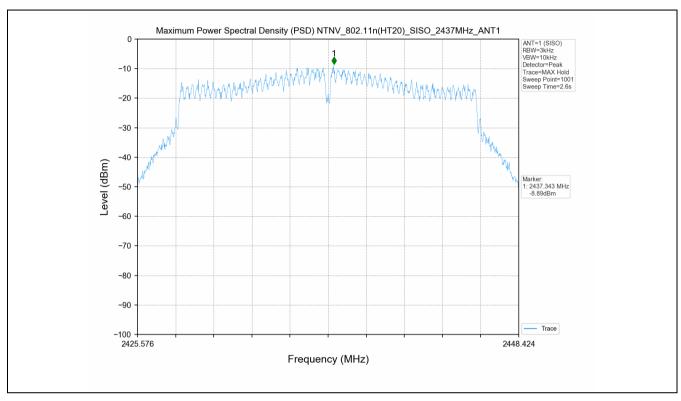
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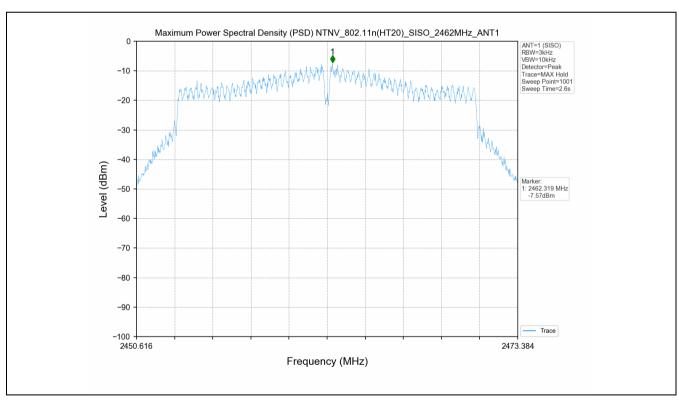
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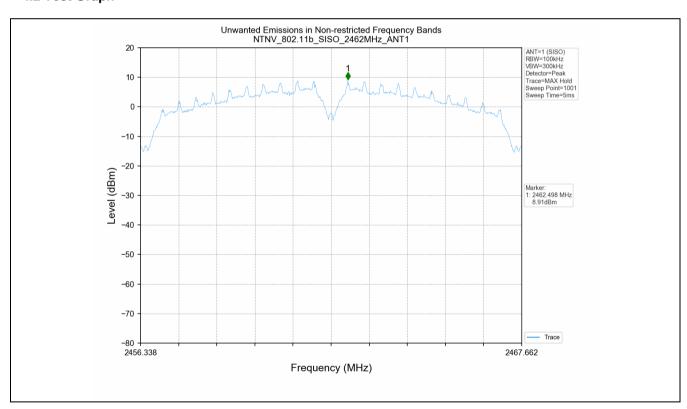
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4. Unwanted Emissions in Non-restricted Frequency Bands

4.1 Test Result

Test Mode	st Mode Frequency (MHz) TX Type ANT No. Spurious Conducted Emission (dBm)		Limits (dBm)	Verdict		
	2412	SISO	1	Refer to test graph	-21.09	PASS
802.11b	2437	SISO	1	Refer to test graph	-21.09	PASS
	2462	SISO	1	Refer to test graph	-21.09	PASS
	2412	SISO	1	Refer to test graph	-24.35	PASS
802.11g	2437	SISO	1	Refer to test graph	-24.35	PASS
	2462	SISO	1	Refer to test graph	-24.35	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-26.28	PASS
	2437	SISO	1	Refer to test graph	-26.28	PASS
	2462	SISO	1	Refer to test graph	-26.28	PASS

4.2 Test Graph





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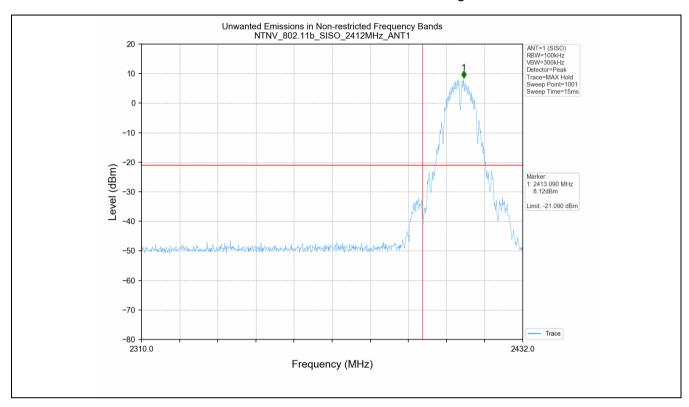
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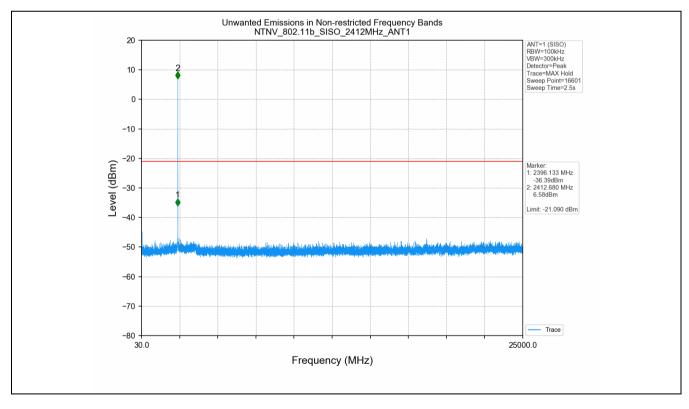
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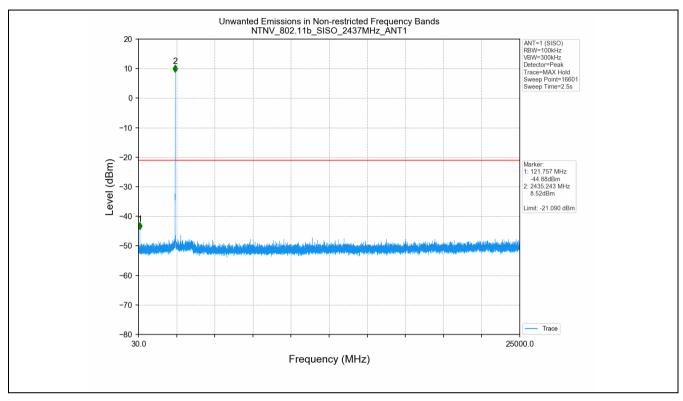
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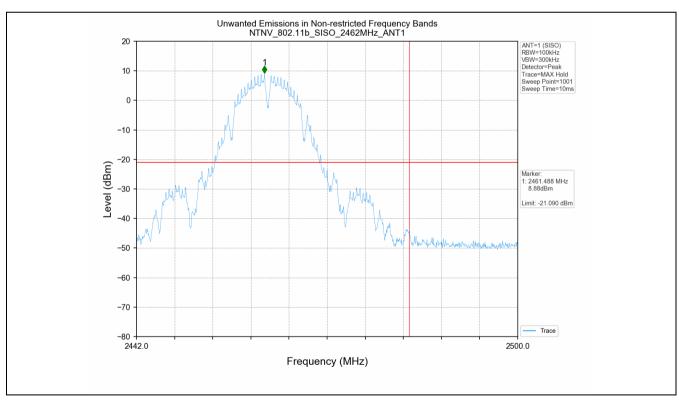
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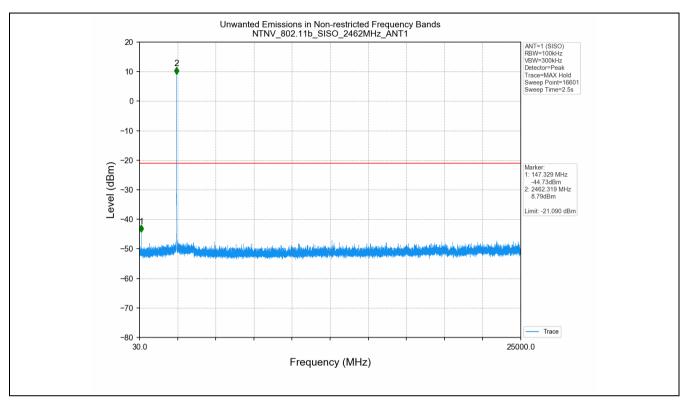
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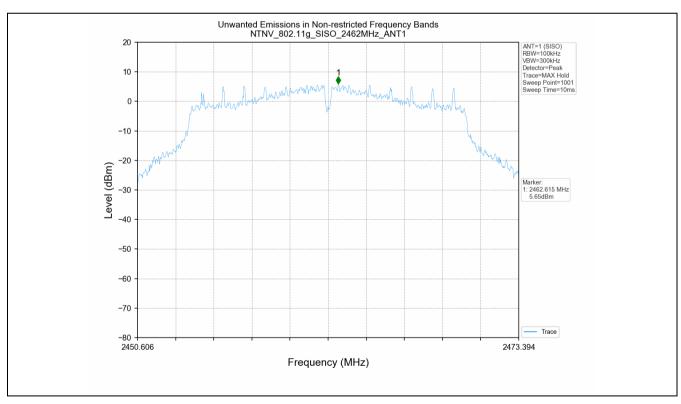
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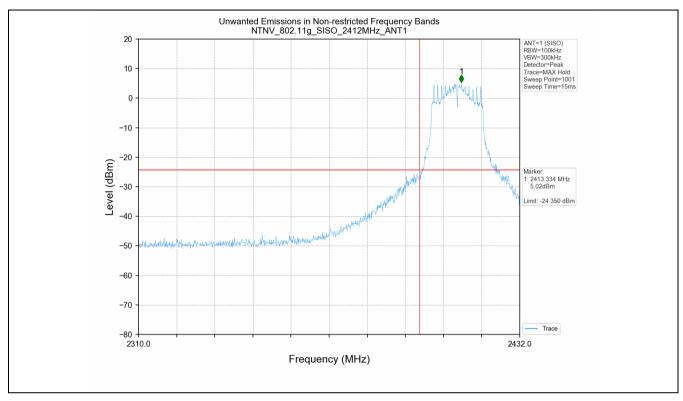
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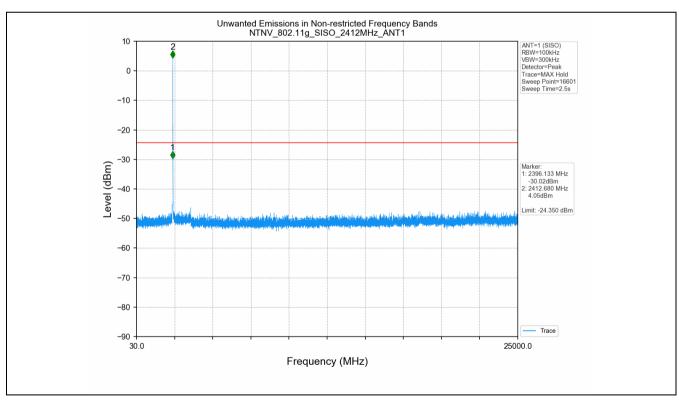
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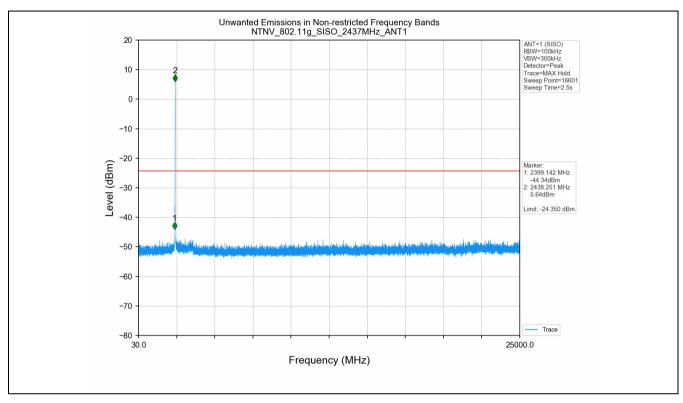
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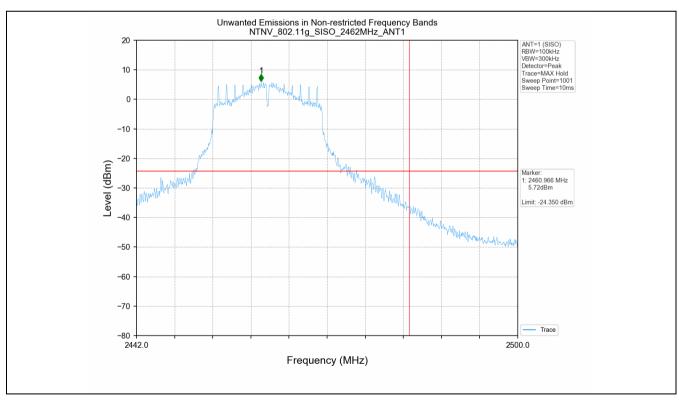
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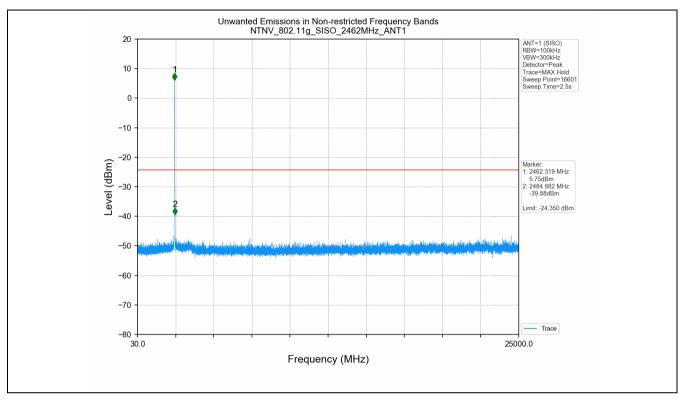
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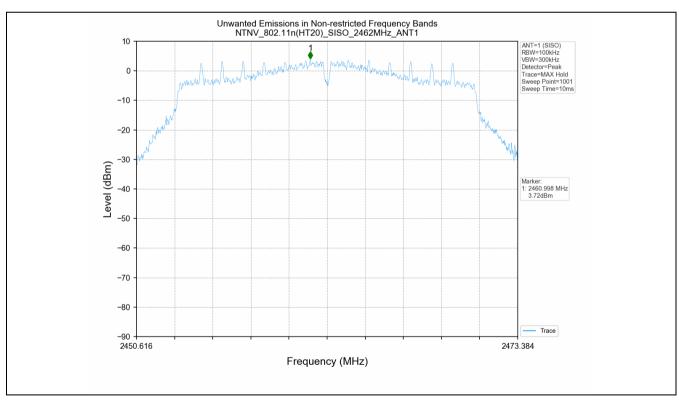
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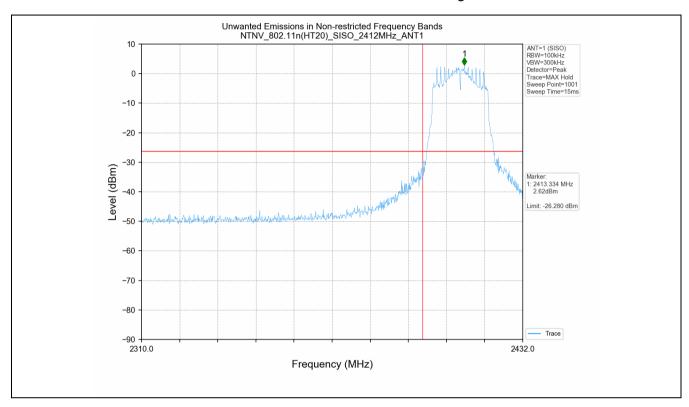
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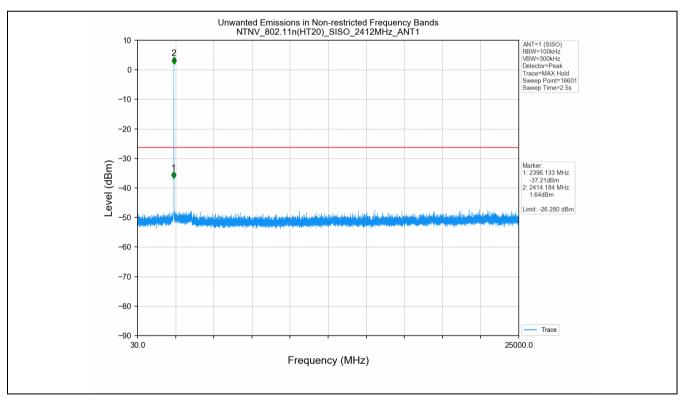
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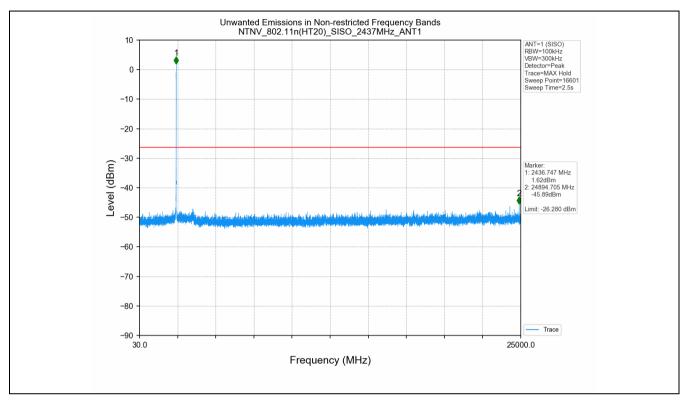
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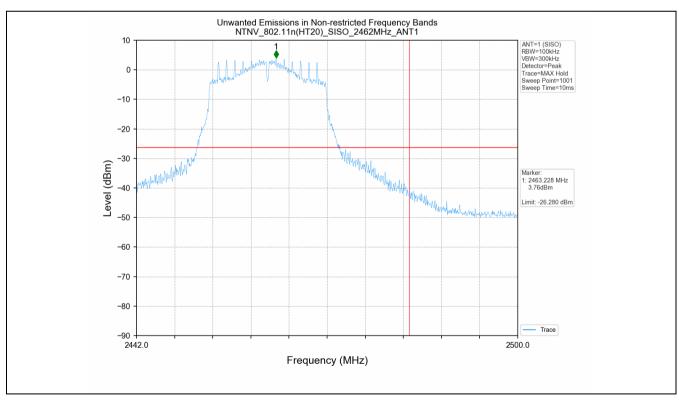
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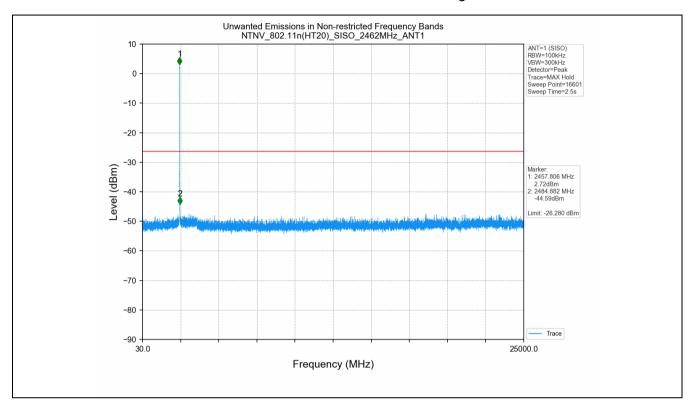
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