

Report No.: SZEM200800848302

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TEST REPORT

Application No.: SZEM2008008483CR

Applicant: SHENZHEN QIAOHUA INDUSTRIES LIMITED

Address of Applicant: Room 301, No.building, Qiaohua Industrial Park, Luotian forestry center,

Yanchuan, Yanluo town, Bao An, Shenzhen, 518127 China

Manufacturer: SHENZHEN QIAOHUA INDUSTRIES LIMITED

Address of Manufacturer: Room 301, No.building, Qiaohua Industrial Park, Luotian forestry center,

Yanchuan, Yanluo town, Bao An, Shenzhen, 518127 China

Factory: SHENZHEN QIAOHUA INDUSTRIES LIMITED

Address of Factory: Room 301, No.building, Qiaohua Industrial Park, Luotian forestry center,

Yanchuan, Yanluo town, Bao An, Shenzhen, 518127 China

Equipment Under Test (EUT):

Trade mark:

EUT Name: WIRELESS SMART CAMERA

Model No.: HC-001, HC-002, HC-003, HC-004, HC-005, HC-006, HC-007, HC-008, HC-

009, HC-010, HC-011, HC-012, HC-013, HC-014, HC-015, HC-016, HC-

017, HC-018, HC-019, HC-020 .

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

actually tested and which were electrically identical.

Guiv

FCC ID: 2AAV8HC-001

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

Date of Receipt: 2020-08-26

Date of Test: 2020-11-03 to 2020-12-02

Date of Issue: 2020-12-02

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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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	Remark	
01		2020-12-02		Original	

Authorized for issue by:		
	Hany Ulu	
	Harry Wu/Project Engineer	-
	EvicFu	
	Eric Fu/Reviewer	-



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Test Summary 2

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
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		

Remark:

Model No.: HC-001, HC-002, HC-003, HC-004, HC-005, HC-006, HC-007, HC-008, HC-009, HC-010, HC-011, HC-012, HC-013, HC-014, HC-015, HC-016, HC-017, HC-018, HC-019, HC-020

Only the model HC-001 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on appearance and model name.



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4 General Information

4.1 Details of E.U.T.

Powered by internal two lithium-ion Cells (model:LR1865SK (ICR19/66SK),
3.6V d.c., 2600mAh) or DC source via micro USB (5 Vd.c.)
802.11b/g/n(HT20): 2412MHz to 2462MHz
802.11n(HT40): 2422MHz to 2452MHz
802.11b: DSSS (CCK, DQPSK, DBPSK)
802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11b/g/n(HT20):11
802.11n(HT40):7
5MHz
FPC Antenna
3.5dBi

4.2 Details of Sample setting.

RF software:	SecureCRT
Software Power setting:	Tx Power: Default (The peak output power refer to Appendix 15-247)

4.3 Cable

Cable	Length	Shielding	Core
USB Cable	0.5m	Unshielded	Non-Core

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500

4.5 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)



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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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4.6 Test Location

All tests were performed at:

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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.

4.7 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.

4.8 Deviation from Standards

None

4.9 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	2020-09-23	2021-09-22			
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31			

Conducted Peak 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			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09			
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20			

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			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-02	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			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			



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Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	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				
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22				
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09				
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20				

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			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2020-04-01	2021-03-31			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22			
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM031-02	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 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	2020-09-23	2021-09-22			
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	2020-11-14	2023-11-13			



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Pre-Amplifier	Compliance Directions Systems	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
	Inc.				

Radiated Spurious Emissions								
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 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	2020-09-23	2021-09-22			
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	2020-11-14	2023-11-13			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31			



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Radiated 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

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14			
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, Subpart C 15.203

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 3.5dBi.

Antenna location: Refer to Internal photos.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

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: 25 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

The rest medic 2 section and 2							
Pre-scan / Final test	Mode Code	Description					
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.					



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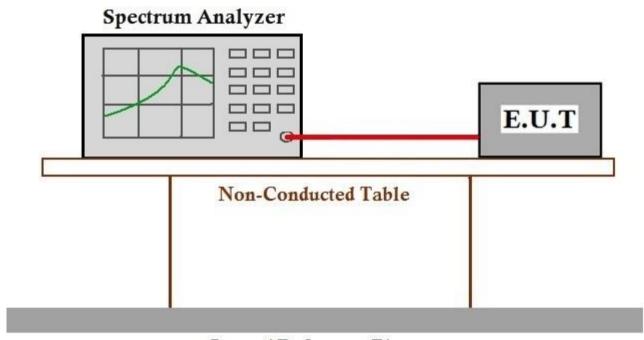
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7.1.3 Test Setup Diagram



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

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

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

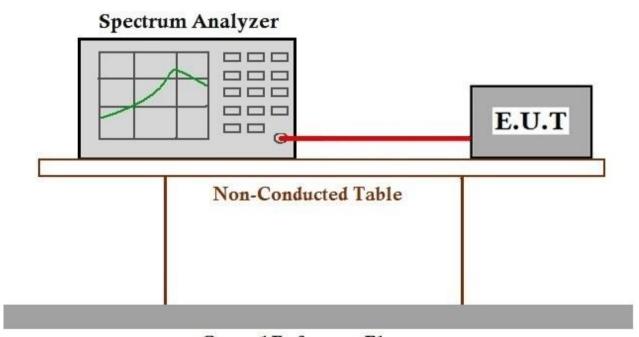
Operating Environment:

Temperature: 25 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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: 25 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). 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: 25 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

	The same and pro-							
Pre-scan / Final test	Mode Code	Description						
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.						



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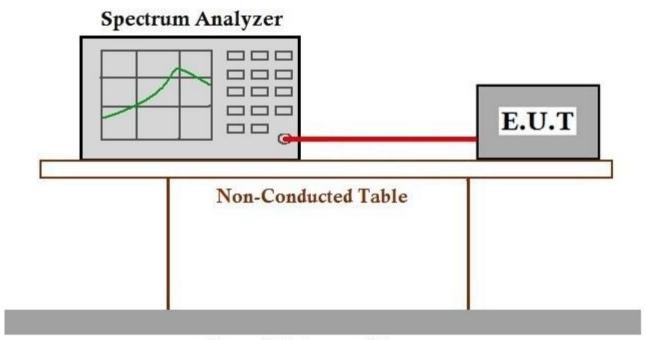
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7.4.3 Test Setup Diagram



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: 25 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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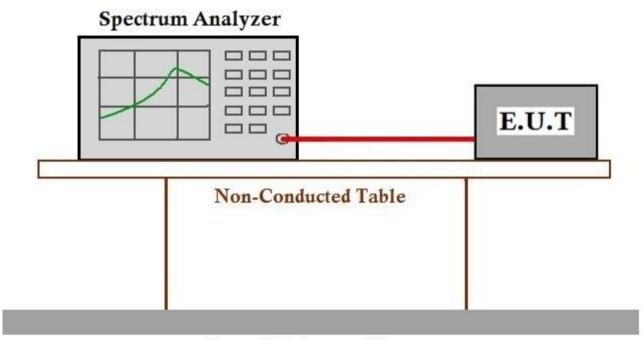
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7.5.3 Test Setup Diagram



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

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

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: 22.3 °C Humidity: 53.7 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	02	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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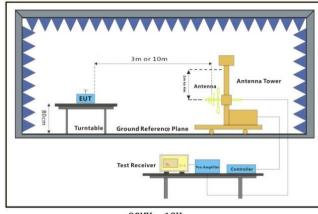
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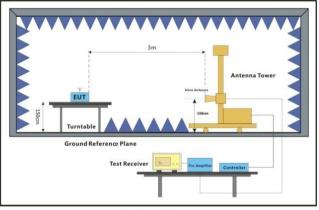


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7.6.3 Test Setup Diagram





30MHz-1GHz

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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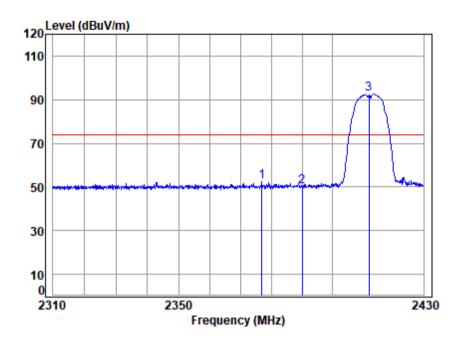
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

: 2.4G WIFI 11B 1Mbps Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.932	4.32	28.50	40.97	60.74	52.59	74.00	-21.41	peak
2	2390.000	4.34	28.52	40.97	58.25	50.14	74.00	-23.86	peak
3 *	2412.000	4.38	28.56	40.98	100.54	92.50	74.00	18.50	peak



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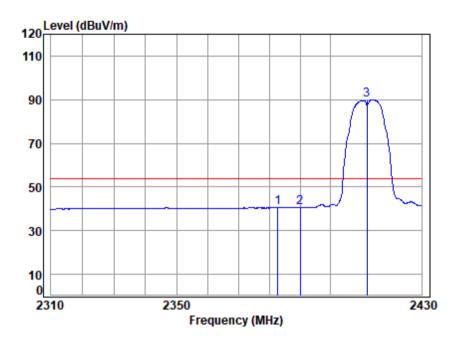
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11B 1Mbps

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2382.717	4.33	28.51	40.97	48.80	40.67	54.00	-13.33	Average
2	2390.000	4.34	28.52	40.97	48.65	40.54	54.00	-13.46	Average
3 *	2412.000	4.38	28.56	40.98	97.86	89.82	54.00	35.82	Average



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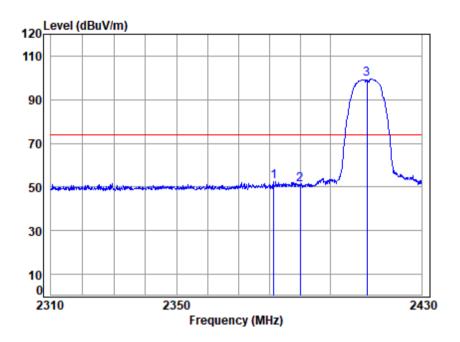
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

1

Mode : 2412 Band edge

Note : 2.4G WIFI 11B 1Mbps

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2381.390 2390.000								

3 * 2412.000 4.38 28.56 40.98 107.35 99.31 74.00 25.31 Peak



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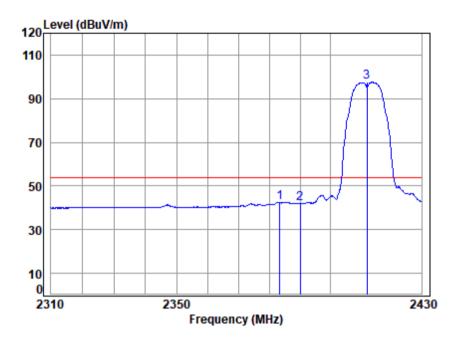
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11B 1Mbps

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		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	2383.321	4.33	28.51	40.97	50.64	42.51	54.00	-11.49	Average	
2	2390.000	4.34	28.52	40.97	49.98	41.87	54.00	-12.13	Average	
3 *	2412.000	4.38	28.56	40.98	105.52	97.48	54.00	43.48	Average	



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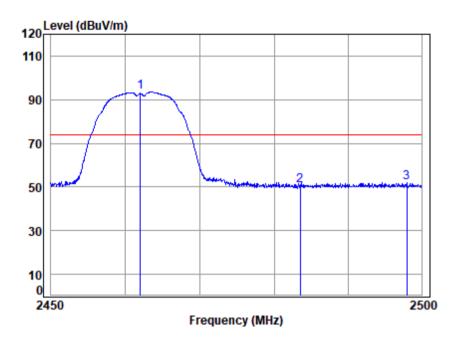
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2462 Band edge

: 2.4G WIFI 11B 1Mbps Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	101.26	93.36	74.00	19.36	peak
2	2483.500	4.49	28.67	41.01	58.33	50.48	74.00	-23.52	peak
	2497.980								•



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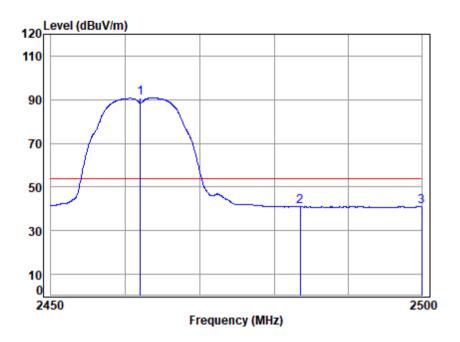
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2462 Band edge

· 2 4G WTFT 11B 1Mbns Note

OCC	. 2	TO WILL	1 110 .	ruppa						
		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	98.69	90.79	54.00	36.79	Average	
2	2483.500	4.49	28.67	41.01	48.75	40.90	54.00	-13.10	Average	
3	2500.000	4.52	28.70	41.02	48.96	41.16	54.00	-12.84	Average	



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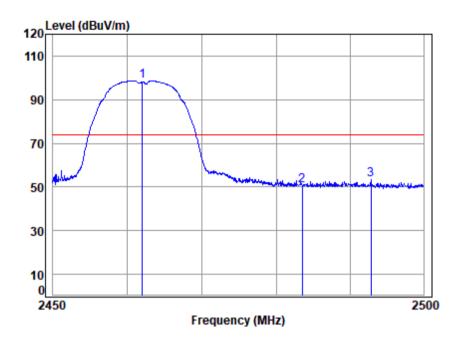
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Report No.: SZEM200800848302

Page: 30 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

2492.838

Job No : 08483CR

Mode : 2462 Band edge

Note : 2.4G WIFI 11B 1Mbps

Freq						Limit Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
* 2462.000 2483.500								

4.51 28.69 41.01 61.08 53.27 74.00 -20.73 Peak



1 2 3

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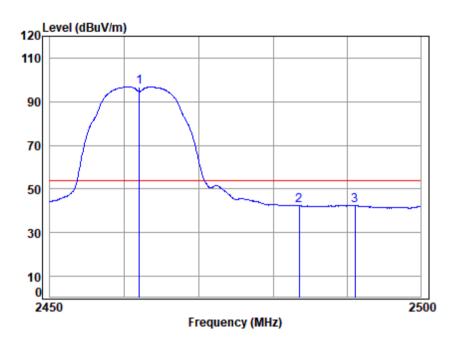
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Report No.: SZEM200800848302

Page: 31 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2462 Band edge

· 2 4G WTFT 11B 1Mbns Note

OLC	. 2	+O MII	1 110 .	ruoh2						
		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	104.61	96.71	54.00	42.71	Average	
2	2483.500	4.49	28.67	41.01	50.14	42.29	54.00	-11.71	Average	
3	2491.076	4.51	28.69	41.01	50.15	42.34	54.00	-11.66	Average	



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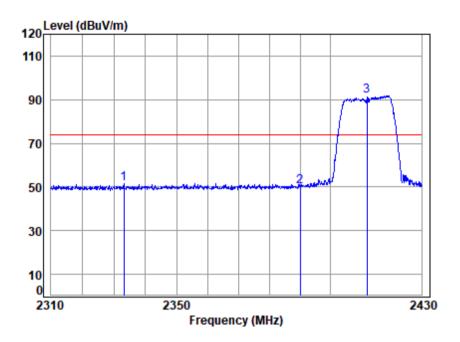
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

: 2.4G WTFT 11G 6Mbps Note

			,	J. 10 P J						
		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	2333.162	4.25	28.42	40.95	60.00	51.72	74.00	-22.28	peak	
2	2390.000	4.34	28.52	40.97	58.30	50.19	74.00	-23.81	peak	
3 *	2412.000	4.38	28.56	40.98	99.76	91.72	74.00	17.72	peak	



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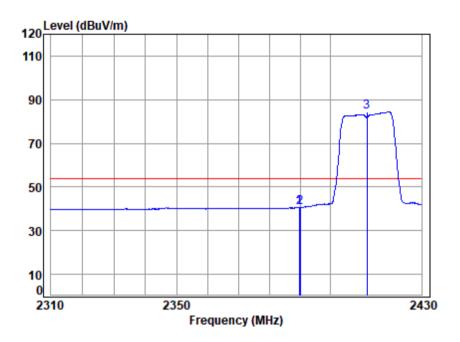
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11G 6Mbps

				p_						
		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	2389.726	4.34	28.52	40.97	48.69	40.58	54.00	-13.42	Average	
2	2390.000	4.34	28.52	40.97	48.61	40.50	54.00	-13.50	Average	
3 *	2412.000	4.38	28.56	40.98	92.33	84.29	54.00	30.29	Average	



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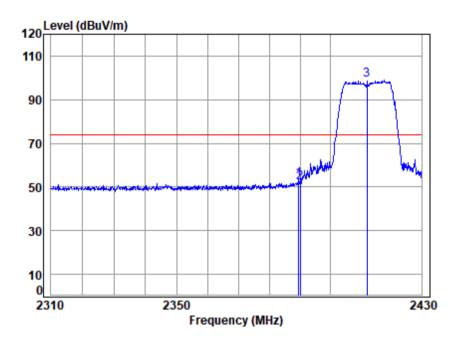
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Report No.: SZEM200800848302

Page: 34 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2412 Band edge

· 2 4G WIFT 11G 6Mbns Note

OLC	. 2	+O MII	1 110 (בקטרונ						
		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	2389.605	4.34	28.52	40.97	61.34	53.23	74.00	-20.77	Peak	
2	2390.000	4.34	28.52	40.97	60.04	51.93	74.00	-22.07	Peak	
3 *	2412.000	4.38	28.56	40.98	106.93	98.89	74.00	24.89	Peak	



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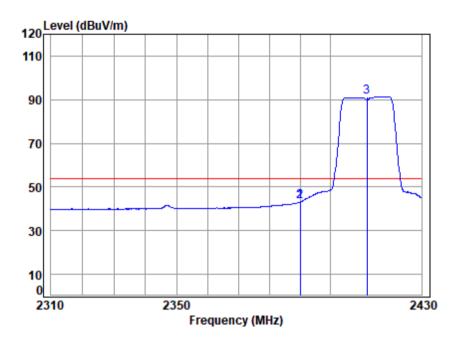
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Report No.: SZEM200800848302

Page: 35 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2412 Band edge

· 2 4G WIFT 11G 6Mbns Note

OCC	. 2	TO WILL	1 110 (JIIDPS						
		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	51.26	43.15	54.00	-10.85	Average	
2	2390.000	4.34	28.52	40.97	51.26	43.15	54.00	-10.85	Average	
3 *	2412.000	4.38	28.56	40.98	99.40	91.36	54.00	37.36	Average	



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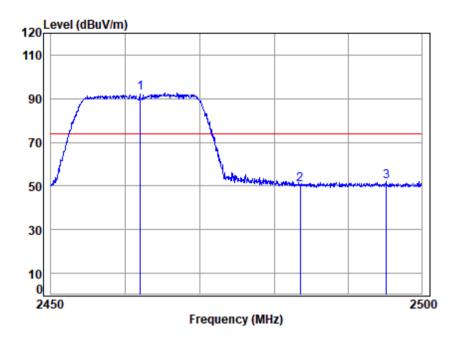
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2462 Band edge

: 2.4G WIFI 11G 6Mbps Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2462.000	4.46	28.64	41.00	100.49	92.59	74.00	18.59	peak	
2	2483.500	4.49	28.67	41.01	58.41	50.56	74.00	-23.44	peak	
	2495.207								•	



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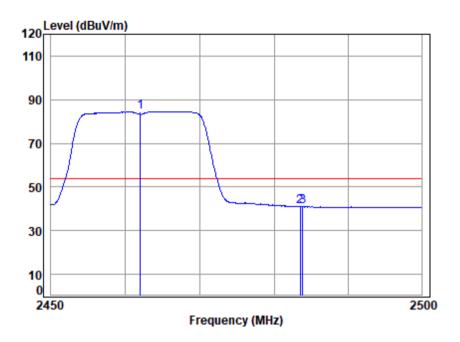
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2462 Band edge

Note : 2.4G WIFI 11G 6Mbps

OLC	. 2	+O MII	1 110 (onups .						
		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	92.27	84.37	54.00	30.37	Average	
2	2483.500	4.49	28.67	41.01	48.83	40.98	54.00	-13.02	Average	
3	2483.840	4.49	28.67	41.01	48.86	41.01	54.00	-12.99	Average	



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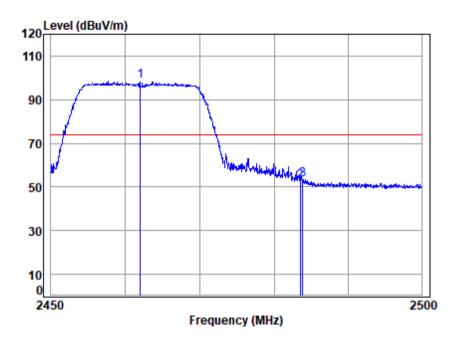
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2462 Band edge

· 2 4G WIFT 11G 6Mbns Note

OCC	. 2	TO WILL	1 110 (oriops						
		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	106.66	98.76	74.00	24.76	Peak	
2	2483.500	4.49	28.67	41.01	60.26	52.41	74.00	-21.59	Peak	
3	2483.840	4.49	28.67	41.01	61.39	53.54	74.00	-20.46	Peak	



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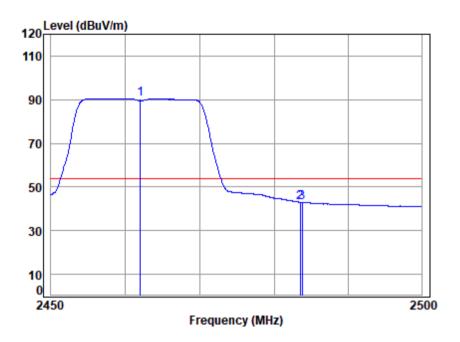
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2462 Band edge

: 2.4G WIFI 11G 6Mbps Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	4.46	28.64	41.00	98.27	90.37	54.00	36.37	Average
2	2483.500	4.49	28.67	41.01	50.87	43.02	54.00	-10.98	Average
3	2483.790	4.49	28.67	41.01	50.82	42.97	54.00	-11.03	Average



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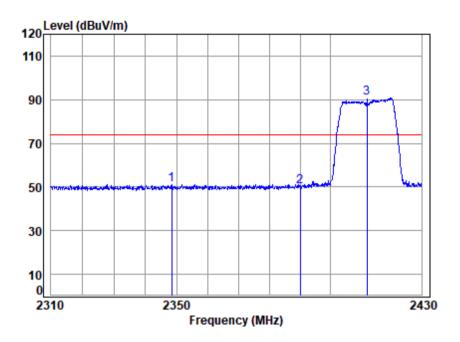
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Report No.: SZEM200800848302

Page: 40 of 123

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

· 2 4G WIFT 11N20 MCS0 Note

OCC	. 2	TO WILL	1 111121	J HCJO						
		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	2348.454	4.28	28.45	40.95	59.25	51.03	74.00	-22.97	peak	
2	2390.000	4.34	28.52	40.97	58.32	50.21	74.00	-23.79	peak	
3 *	2412.000	4.38	28.56	40.98	98.77	90.73	74.00	16.73	peak	



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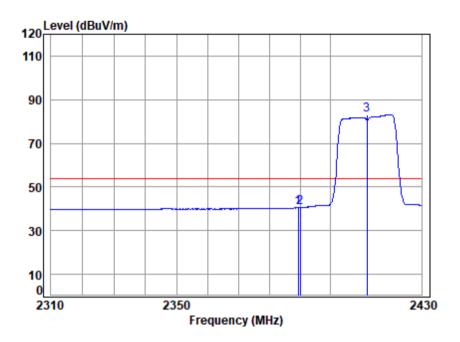
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11N20 MCS0

OCC	. 2	TO MIL	1 11112	U IICSO						
		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	2389.363	4.34	28.52	40.97	48.62	40.51	54.00	-13.49	Average	
2	2390.000	4.34	28.52	40.97	48.61	40.50	54.00	-13.50	Average	
3 *	2412.000	4.38	28.56	40.98	91.28	83.24	54.00	29.24	Average	



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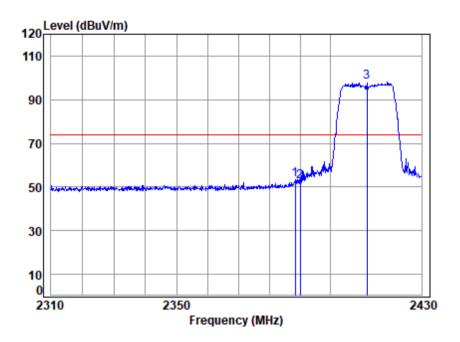
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Report No.: SZEM200800848302

Page: 42 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11N20 MCS0

ote	. 2.	+G MIL	T TTIVE	0 11030						
		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	2388.395	4.34	28.52	40.97	61.72	53.61	74.00	-20.39	Peak	
2	2390.000	4.34	28.52	40.97	60.62	52.51	74.00	-21.49	Peak	
3 *	2412.000	4.38	28.56	40.98	105.96	97.92	74.00	23.92	Peak	



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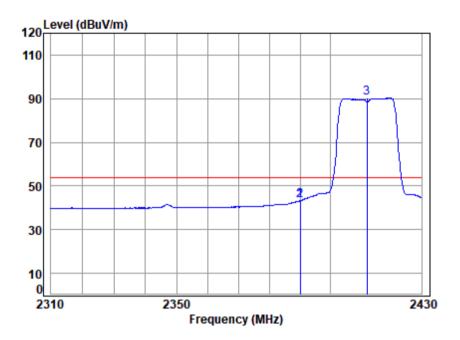
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 08483CR

Mode : 2412 Band edge

Note : 2.4G WIFI 11N20 MCS0

Cable Ant Preamp Read Limit Over. Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 2389.968 4.34 28.52 40.97 51.30 43.19 54.00 -10.81 Average 2390.000 4.34 28.52 40.97 51.30 43.19 54.00 -10.81 Average

4.38 28.56 40.98 98.27 90.23 54.00 36.23 Average



1

3 * 2412.000

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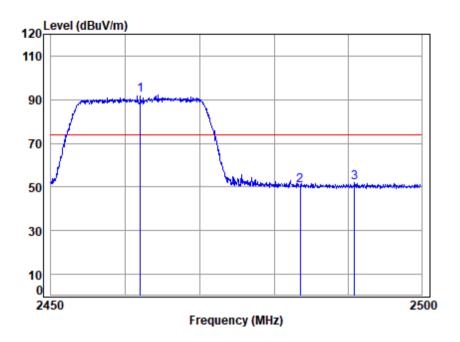
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

1 2 3

Mode : 2462 Band edge

· 2 4G WIFT 11N20 MCS0 Note

_	. 2	TO WILL	1 1111/2	o neso						
		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	99.87	91.97	74.00	17.97	peak	
	2483.500	4.49	28.67	41.01	58.33	50.48	74.00	-23.52	peak	
3	2490.875	4.51	28.69	41.01	59.92	52.11	74.00	-21.89	peak	



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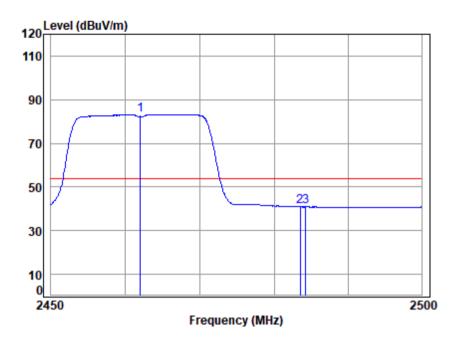
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Report No.: SZEM200800848302

Page: 45 of 123

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

1 2 3

Mode : 2462 Band edge

· 2 4G WIFT 11N20 MCS0 Note

_	. 2	+O MII	1 1111/2	O MCSO						
		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	91.08	83.18	54.00	29.18	Average	
2	2483.500	4.49	28.67	41.01	48.76	40.91	54.00	-13.09	Average	
;	2484.241	4.50	28.67	41.01	48.83	40.99	54.00	-13.01	Average	



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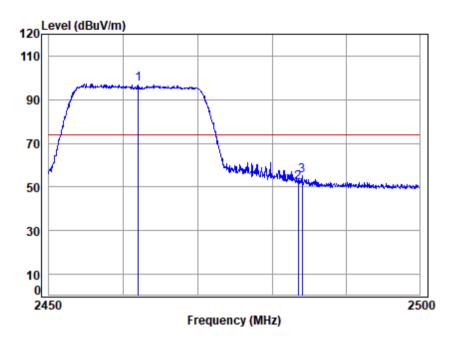
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2462 Band edge

· 2 4G WIFT 11N20 MCS0 Note

OLC	. 2	+O MII	1 1111/21	O MCSO						
		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	105.31	97.41	74.00	23.41	Peak	
2	2483.500	4.49	28.67	41.01	59.69	51.84	74.00	-22.16	Peak	
3	2484.041	4.50	28.67	41.01	62.90	55.06	74.00	-18.94	Peak	



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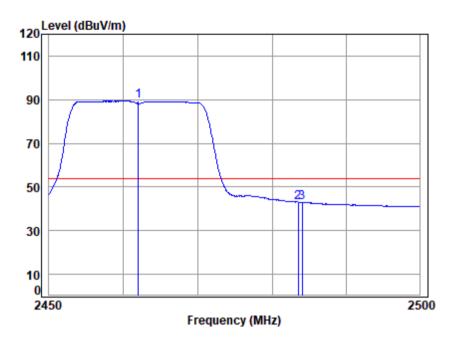
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 08483CR

Mode : 2462 Band edge

Note : 2.4G WIFI 11N20 MCS0

Cable Ant Preamp Read Limit Over.

Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB

1 * 2462.000 4.46 28.64 41.00 97.20 89.30 54.00 35.30 Average 2 2483.500 4.49 28.67 41.01 50.92 43.07 54.00 -10.93 Average 4.50 28.67 41.01 3 2484.041 50.84 43.00 54.00 -11.00 Average



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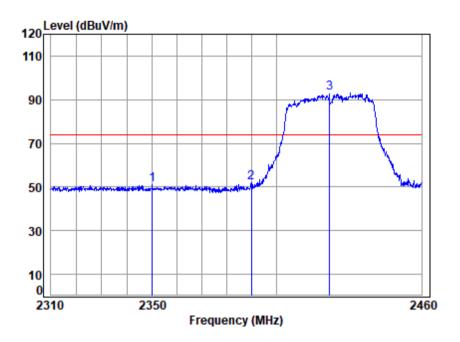
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

Mode : 2422 Band edge · 2 4G WTFT 11N40 Note

oce	. 2	+O MIL	T TTIA-4	9						
		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	2350.018	4.28	28.45	40.40	58.89	51.22	74.00	-22.78	Peak	
2	2390.000	4.34	28.52	40.42	59.40	51.84	74.00	-22.16	Peak	
3 *	2422.000	4.40	28.57	40.44	100.65	93.18	74.00	19.18	peak	



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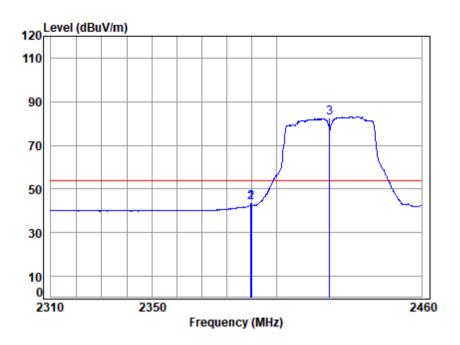
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	4.34	28.52	40.42	51.16	43.60	54.00	-10.40	Average
2	2390.000	4.34	28.52	40.42	51.17	43.61	54.00	-10.39	Average
3 *	2422.000	4.40	28.57	40.44	89.87	82.40	54.00	28.40	Average



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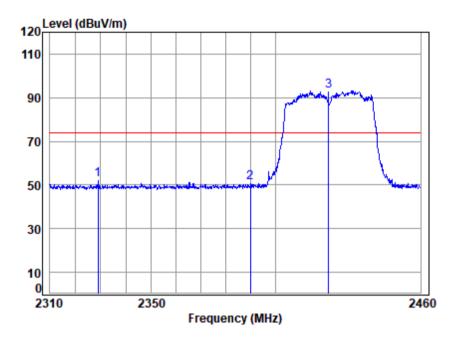
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Report No.: SZEM200800848302

Page: 50 of 123

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2422 Band edge · 2 4G WTFT 11N40 Note

OLC	. 2	+O MII	T TTIV+							
		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	2328.970	4.24	28.41	40.39	60.17	52.43	74.00	-21.57	Peak	
2	2390.000	4.34	28.52	40.42	58.89	51.33	74.00	-22.67	Peak	
3 *	2422.000	4.40	28.57	40.44	100.49	93.02	74.00	19.02	Peak	



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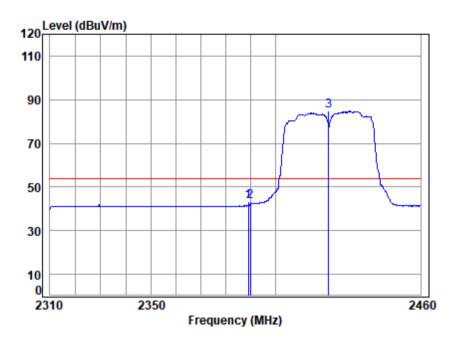
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2422 Band edge · 2 4G WTFT 11N40 Note

oce	. 2	+O MIL	T TTIA-4	9						
		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	2389.226	4.34	28.52	40.42	50.98	43.42	54.00	-10.58	Average	
2	2390.000	4.34	28.52	40.42	51.05	43.49	54.00	-10.51	Average	
3 *	2422.000	4.40	28.57	40.44	92.24	84.77	54.00	30.77	Average	



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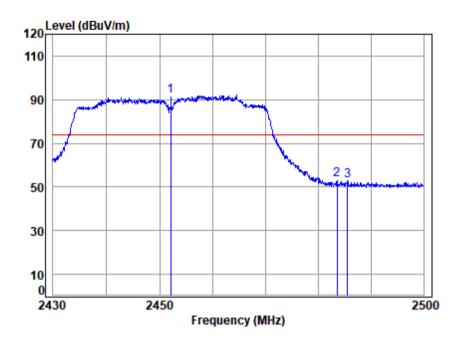
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

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

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2452.000	4.44	28.62	40.45	99.12	91.73	74.00	17.73	peak
2		2483.500	4.49	28.67	40.47	60.56	53.25	74.00	-20.75	peak
3		2485.488	4.50	28.68	40.47	60.42	53.13	74.00	-20.87	peak



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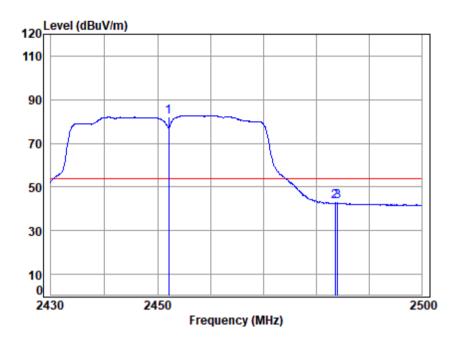
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2452.000	4.44	28.62	40.45	89.73	82.34	54.00	28.34	Average
2	2483.500	4.49	28.67	40.47	50.81	43.50	54.00	-10.50	Average
3	2484.006	4.49	28.67	40.47	50.84	43.53	54.00	-10.47	Average



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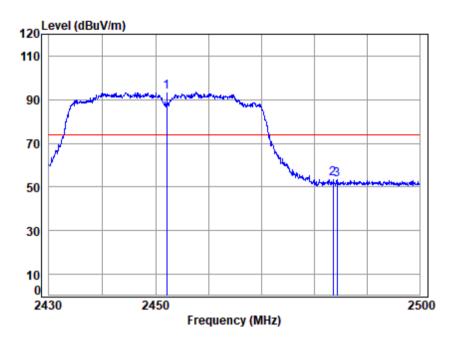
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR

Mode : 2452 Band edge · 2 4G WTFT 11N40 Note

OCC	. 2	TO MIL	T TTIV-							
		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 *	2452.000	4.44	28.62	40.45	100.71	93.32	74.00	19.32	Peak	
2	2483.500	4.49	28.67	40.47	60.95	53.64	74.00	-20.36	Peak	
3	2484.217	4.50	28.67	40.47	60.86	53.56	74.00	-20.44	Peak	



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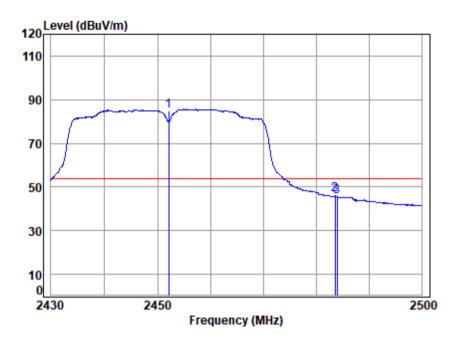
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR

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

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2452.000	4.44	28.62	40.45	92.16	84.77	54.00	30.77	Average	
2	2483.500	4.49	28.67	40.47	53.85	46.54	54.00	-7.46	Average	
3	2483.865	4.49	28.67	40.47	53.06	45.75	54.00	-8.25	Peak	



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7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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: 22.3 °C Humidity: 52.1 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	02	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



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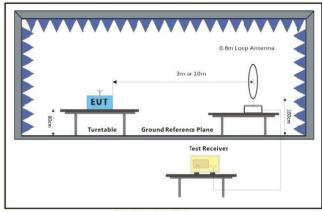
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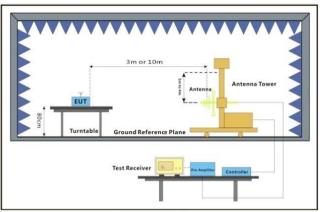


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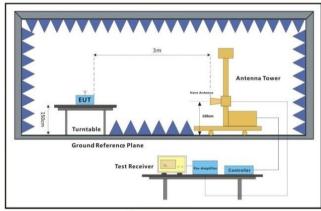
7.7.3 Test Setup Diagram





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, guasi-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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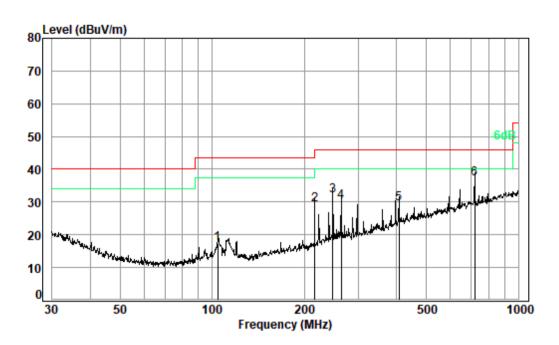
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Test Mode: 02; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 08483CR

Test mode: 02

		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	104.17	1.11	13.80	27.58	30.10	17.43	43.50	-26.07	QP
2	216.02	1.35	17.07	27.09	37.82	29.15	46.00	-16.85	QP
3	247.68	1.62	18.92	27.00	38.49	32.03	46.00	-13.97	QP
4	263.82	1.75	19.04	26.96	36.26	30.09	46.00	-15.91	QP
5	407.51	2.32	22.58	27.43	32.07	29.54	46.00	-16.46	QP
6 p	p 719.20	2.98	28.02	27.88	33.89	37.01	46.00	-8.99	QP



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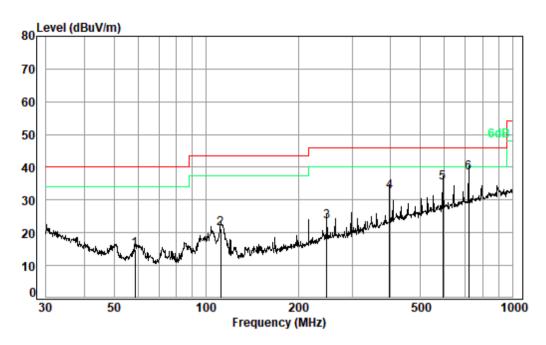
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 08483CR

Test mode: 02

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.61	0.79	13.33	27.67	28.33	14.78	40.00	-25.22	QP
2	111.74								-
3	247.68	1.62	18.92	27.00	29.97	23.51	46.00	-22.49	QP
4	396.24	2.29	22.31	27.38	35.31	32.53	46.00	-13.47	QP
5	593.05	2.69	26.47	28.11	34.31	35.36	46.00	-10.64	QP
6 pp	719.20	2.98	28.02	27.88	35.22	38.34	46.00	-7.66	OP



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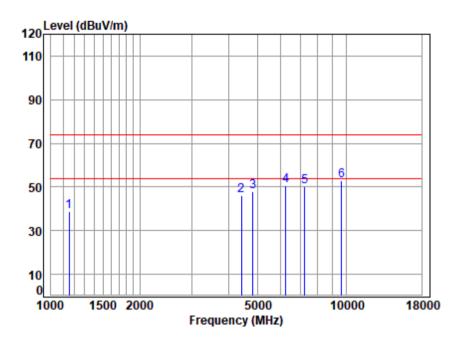
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11B 1Mbps

		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	1152.148	2.67	24.37	40.24	52.12	38.92	74.00	-35.08	peak
2	4417.841	6.68	33.46	42.49	48.23	45.88	74.00	-28.12	peak
3	4824.000	7.12	34.00	42.78	49.43	47.77	74.00	-26.23	peak
4	6249.464	8.27	35.35	42.09	49.33	50.86	74.00	-23.14	peak
5	7236.000	8.77	36.09	41.56	46.79	50.09	74.00	-23.91	peak
6	9648.000	10.79	37.69	38.51	42.92	52.89	74.00	-21.11	peak



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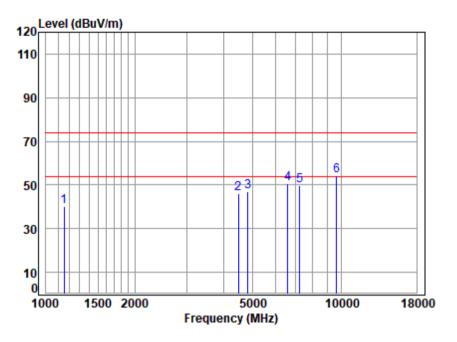
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11B 1Mbps

	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		
1152.148	2.67	24.37	40.24	53.34	40.14	74.00	-33.86	peak	
4482.150	6.74	33.57	42.54	48.16	45.93	74.00	-28.07	peak	
4824.000	7.12	34.00	42.78	48.47	46.81	74.00	-27.19	peak	
6602.265	8.33	35.66	41.89	48.66	50.76	74.00	-23.24	peak	
7236.000	8.77	36.09	41.56	46.57	49.87	74.00	-24.13	peak	
9648.000	10.79	37.69	38.51	44.11	54.08	74.00	-19.92	peak	
3040.000	10.75	37.03	50.51	44.11	54.00	74.00	-13.32	peak	
	MHz 1152.148 4482.150 4824.000 6602.265 7236.000	Freq Loss MHz dB 1152.148 2.67 4482.150 6.74 4824.000 7.12 6602.265 8.33 7236.000 8.77	Freq Loss Factor MHz dB dB/m 1152.148 2.67 24.37 4482.150 6.74 33.57 4824.000 7.12 34.00 6602.265 8.33 35.66 7236.000 8.77 36.09	Freq Loss Factor Factor MHz dB dB/m dB 1152.148 2.67 24.37 40.24 4482.150 6.74 33.57 42.54 4824.000 7.12 34.00 42.78 6602.265 8.33 35.66 41.89 7236.000 8.77 36.09 41.56	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1152.148 2.67 24.37 40.24 53.34 4482.150 6.74 33.57 42.54 48.16 4824.000 7.12 34.00 42.78 48.47 6602.265 8.33 35.66 41.89 48.66 7236.000 8.77 36.09 41.56 46.57	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1152.148 2.67 24.37 40.24 53.34 40.14 4482.150 6.74 33.57 42.54 48.16 45.93 4824.000 7.12 34.00 42.78 48.47 46.81 6602.265 8.33 35.66 41.89 48.66 50.76 7236.000 8.77 36.09 41.56 46.57 49.87	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1152.148 2.67 24.37 40.24 53.34 40.14 74.00 4482.150 6.74 33.57 42.54 48.16 45.93 74.00 4824.000 7.12 34.00 42.78 48.47 46.81 74.00 6602.265 8.33 35.66 41.89 48.66 50.76 74.00 7236.000 8.77 36.09 41.56 46.57 49.87 74.00	Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1152.148 2.67 24.37 40.24 53.34 40.14 74.00 -33.86 4482.150 6.74 33.57 42.54 48.16 45.93 74.00 -28.07 4824.000 7.12 34.00 42.78 48.47 46.81 74.00 -27.19 6602.265 8.33 35.66 41.89 48.66 50.76 74.00 -23.24 7236.000 8.77 36.09 41.56 46.57 49.87 74.00 -24.13	Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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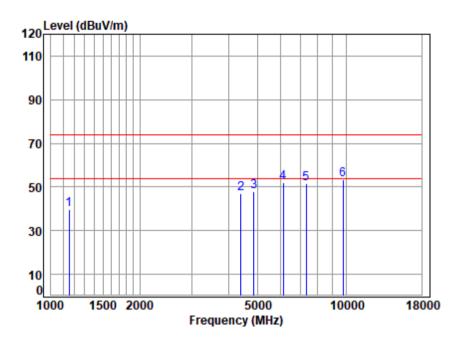
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2437 TX SE

Note : 2.4G WIFI 11B 1Mbps

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1152.148	2.67	24.37	40.24	53.08	39.88	74.00	-34.12	peak
2	4405.090	6.67	33.44	42.48	49.41	47.04	74.00	-26.96	peak
3	4874.000	7.17	34.05	42.82	49.50	47.90	74.00	-26.10	peak
4	6124.292	8.27	35.23	42.17	50.59	51.92	74.00	-22.08	peak
5	7311.000	8.84	36.15	41.53	48.21	51.67	74.00	-22.33	peak
6	9748.000	10.76	37.75	38.37	43.03	53.17	74.00	-20.83	peak



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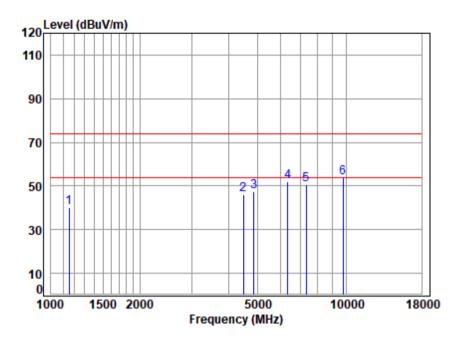
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 08483CR Mode : 2437 TX SE

: 2.4G WTFT 11B 1Mbps Note

0.0	. 2	TO WILL	1 110 .	ruppa					
		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	1152.148	2.67	24.37	40.24	53.16	39.96	74.00	-34.04	peak
2	4482.150	6.74	33.57	42.54	48.19	45.96	74.00	-28.04	peak
3	4874.000	7.17	34.05	42.82	49.19	47.59	74.00	-26.41	peak
4	6340.436	8.27	35.44	42.04	50.17	51.84	74.00	-22.16	peak
5	7311.000	8.84	36.15	41.53	47.16	50.62	74.00	-23.38	peak
6	9748 000	10 76	37 75	38 37	43 82	53 96	74 00	-20 04	neak



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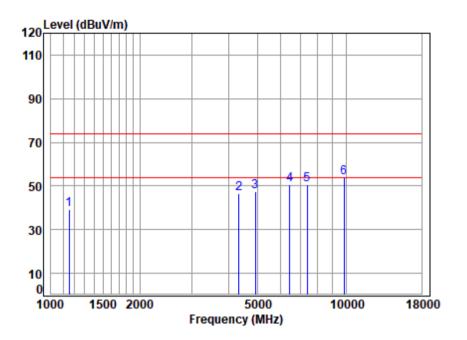
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11B 1Mbps

ore	. 2	+O MIL	I IIU .	Tunha					
		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	1152.148	2.67	24.37	40.24	52.25	39.05	74.00	-34.95	peak
2	4329.354	6.60	33.30	42.42	49.25	46.73	74.00	-27.27	peak
3	4924.000	7.22	34.11	42.85	48.95	47.43	74.00	-26.57	peak
4	6432.732	8.28	35.54	41.99	49.04	50.87	74.00	-23.13	peak
5	7386.000	8.91	36.21	41.49	46.89	50.52	74.00	-23.48	peak
6	9848.000	10.73	37.81	38.22	43.36	53.68	74.00	-20.32	peak



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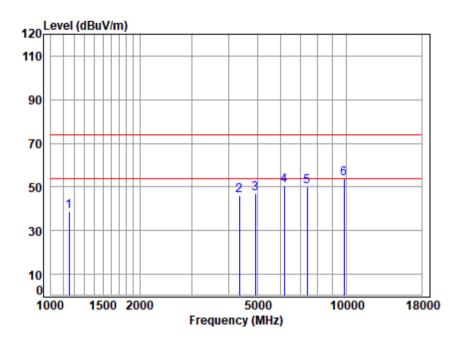
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Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11B 1Mbps

ote	. 2.4	+Q MIL	I IID .	TUDPS						
		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	1152.148	2.67	24.37	40.24	51.85	38.65	74.00	-35.35	peak	
2	4354.454	6.63	33.35	42.44	48.42	45.96	74.00	-28.04	peak	
3	4924.000	7.22	34.11	42.85	48.72	47.20	74.00	-26.80	peak	
4	6177.627	8.27	35.28	42.14	49.27	50.68	74.00	-23.32	peak	
5	7386.000	8.91	36.21	41.49	46.35	49.98	74.00	-24.02	peak	
6	9848.000	10.73	37.81	38.22	43.65	53.97	74.00	-20.03	peak	



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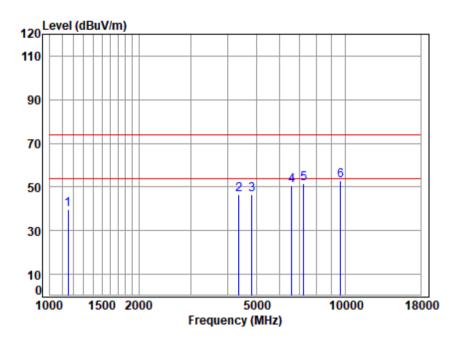
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11G 6Mbps

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1152.148	2.67	24.37	40.24	52.92	39.72	74.00	-34.28	peak
2	4367.058	6.64	33.37	42.45	48.87	46.43	74.00	-27.57	peak
3	4824.000	7.12	34.00	42.78	48.39	46.73	74.00	-27.27	peak
4	6583.209	8.32	35.65	41.91	48.65	50.71	74.00	-23.29	peak
5	7236.000	8.77	36.09	41.56	48.19	51.49	74.00	-22.51	peak
6	9648.000	10.79	37.69	38.51	43.14	53.11	74.00	-20.89	peak



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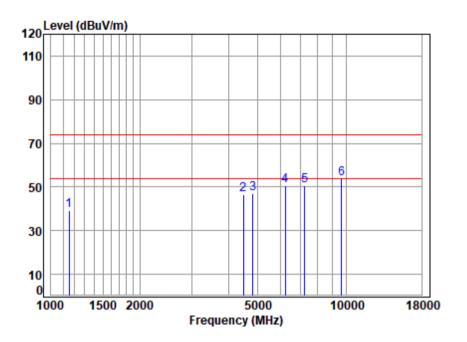
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11G 6Mbps

		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	
	4450 440	0.67	24.27	40.04	F0 66	20.46	74.00	24.54	
1	1152.148	2.6/	24.3/	40.24	52.66	39.46	74.00	-34.54	peak
2	4482.150	6.74	33.57	42.54	48.91	46.68	74.00	-27.32	peak
3	4824.000	7.12	34.00	42.78	48.81	47.15	74.00	-26.85	peak
4	6213.441	8.27	35.32	42.11	49.39	50.87	74.00	-23.13	peak
5	7236.000	8.77	36.09	41.56	47.16	50.46	74.00	-23.54	peak
6	9648.000	10.79	37.69	38.51	43.67	53.64	74.00	-20.36	peak



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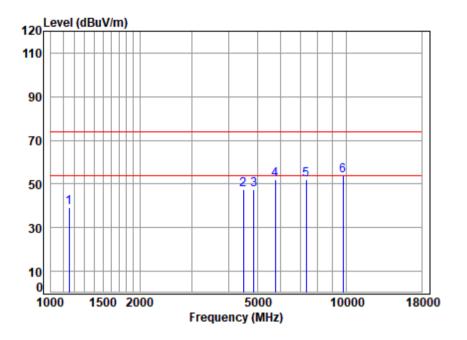
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2437 TX SE

Note : 2.4G WIFI 11G 6Mbps

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	40.24	52.21	39.01	74.00	-34.99	peak
2	4495.125	6.76	33.59	42.55	49.78	47.58	74.00	-26.42	peak
3	4874.000	7.17	34.05	42.82	48.96	47.36	74.00	-26.64	peak
4	5746.982	8.22	34.85	42.40	51.14	51.81	74.00	-22.19	peak
5	7311.000	8.84	36.15	41.53	48.39	51.85	74.00	-22.15	peak
6	9748.000	10.76	37.75	38.37	43.69	53.83	74.00	-20.17	peak



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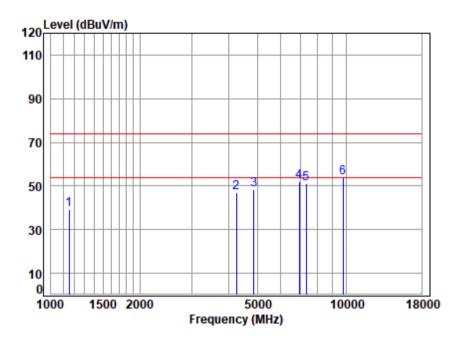
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL Job No : 08483CR

Mode

: 2437 TX SE : 2.4G WIFI 11G 6Mbps Note

Cable Ant Preamp Limit Over. Read Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1152.148 2.67 24.37 40.24 52.35 39.15 74.00 -34.85 peak 1 2 4242.641 6.52 33.15 42.35 49.81 47.13 74.00 -26.87 peak 3 4874.000 7.17 34.05 42.82 50.10 48.50 74.00 -25.50 peak 4 6934.778 8.51 35.86 41.72 49.52 52.17 74.00 -21.83 peak 5 7311.000 8.84 36.15 41.53 47.67 51.13 74.00 -22.87 peak 9748.000 10.76 37.75 38.37 43.88 54.02 74.00 -19.98 peak



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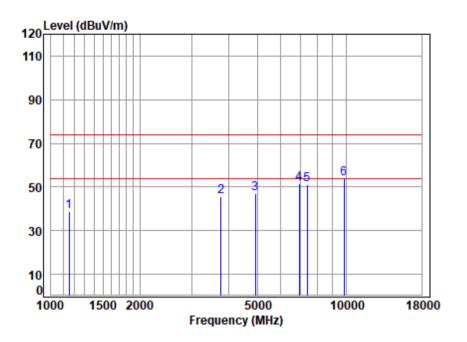
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11G 6Mbps

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	40.24	51.99	38.79	74.00	-35.21	peak
2	3768.513	5.94	32.25	41.96	49.61	45.84	74.00	-28.16	peak
3	4924.000	7.22	34.11	42.85	48.68	47.16	74.00	-26.84	peak
4	6934.778	8.51	35.86	41.72	49.06	51.71	74.00	-22.29	peak
5	7386.000	8.91	36.21	41.49	47.35	50.98	74.00	-23.02	peak
6	9848.000	10.73	37.81	38.22	43.44	53.76	74.00	-20.24	peak



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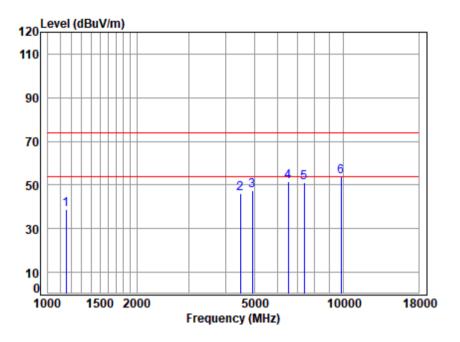
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Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11G 6Mbps

		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	1152.148	2.67	24.37	40.24	51.84	38.64	74.00	-35.36	peak
2	4495.125	6.76	33.59	42.55	48.14	45.94	74.00	-28.06	peak
3	4924.000	7.22	34.11	42.85	48.96	47.44	74.00	-26.56	peak
4	6507.536	8.28	35.60	41.95	49.55	51.48	74.00	-22.52	peak
5	7386.000	8.91	36.21	41.49	47.62	51.25	74.00	-22.75	peak
6	9848.000	10.73	37.81	38.22	43.73	54.05	74.00	-19.95	peak



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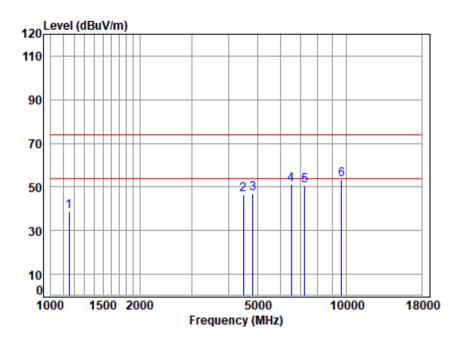
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11N20 MCS0

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	2.67	24.37	40.24	52.17	38.97	74.00	-35.03	peak
2	4495.125	6.76	33.59	42.55	48.57	46.37	74.00	-27.63	peak
3	4824.000	7.12	34.00	42.78	48.88	47.22	74.00	-26.78	peak
4	6507.536	8.28	35.60	41.95	49.19	51.12	74.00	-22.88	peak
5	7236.000	8.77	36.09	41.56	47.43	50.73	74.00	-23.27	peak
6	9648.000	10.79	37.69	38.51	43.56	53.53	74.00	-20.47	peak



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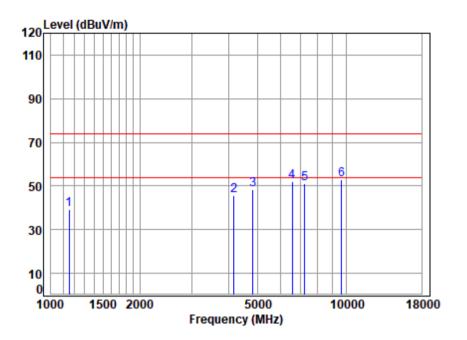
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR Mode : 2412 TX SE

Note : 2.4G WIFI 11N20 MCS0

		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	1152.148	2.67	24.37	40.24	52.26	39.06	74.00	-34.94	peak
2	4169.698	6.45	33.02	42.30	48.63	45.80	74.00	-28.20	peak
3	4824.000	7.12	34.00	42.78	49.99	48.33	74.00	-25.67	peak
4	6564.209	8.31	35.64	41.92	49.95	51.98	74.00	-22.02	peak
5	7236.000	8.77	36.09	41.56	47.86	51.16	74.00	-22.84	peak
6	9648.000	10.79	37.69	38.51	43.14	53.11	74.00	-20.89	peak



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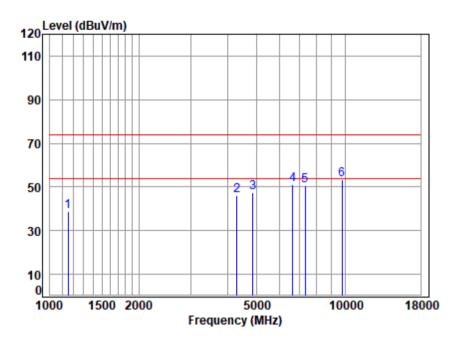
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2437 TX SE

Note · 2 4G WIFT 11N20 MCS0

ote	. 2.	+Q MIL	T TTIVE	שכטויו ט						
		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	1152 149	2 67	24 27	40.24	E1 07	20 67	74.00	25 22	maale	
1	1152.148	2.0/	24.37	40.24	51.0/	30.07	74.00	-33.33	peak	
2	4304.400	6.58	33.26	42.40	48.63	46.07	74.00	-27.93	peak	
3	4874.000	7.17	34.05	42.82	48.92	47.32	74.00	-26.68	peak	
4	6640.542	8.36	35.69	41.87	49.11	51.29	74.00	-22.71	peak	
5	7311.000	8.84	36.15	41.53	47.34	50.80	74.00	-23.20	peak	
6	9748.000	10.76	37.75	38.37	43.07	53.21	74.00	-20.79	peak	



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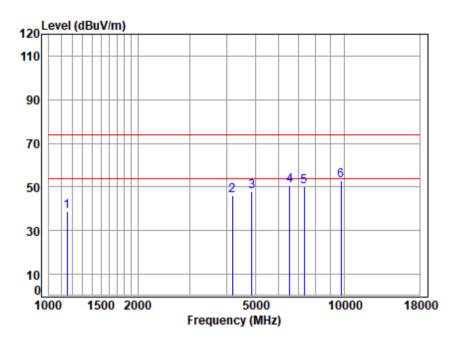
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2437 TX SE

Note : 2.4G WIFI 11N20 MCS0

	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	
1152 140	2 67	24 27	40.24	E2 01	20 01	74.00	2E 10	manle
1152.140	2.0/	24.5/	40.24	52.01	20.01	74.00	-33.19	реак
4181.768	6.46	33.04	42.31	48.82	46.01	74.00	-27.99	peak
4874.000	7.17	34.05	42.82	49.39	47.79	74.00	-26.21	peak
6545.263	8.30	35.63	41.93	48.59	50.59	74.00	-23.41	peak
7311.000	8.84	36.15	41.53	46.87	50.33	74.00	-23.67	peak
9748.000	10.76	37.75	38.37	42.74	52.88	74.00	-21.12	peak
	MHz 1152.148 4181.768 4874.000 6545.263 7311.000	Freq Loss MHz dB 1152.148 2.67 4181.768 6.46 4874.000 7.17 6545.263 8.30 7311.000 8.84	Freq Loss Factor MHz dB dB/m 1152.148 2.67 24.37 4181.768 6.46 33.04 4874.000 7.17 34.05 6545.263 8.30 35.63 7311.000 8.84 36.15	Freq Loss Factor Factor MHz dB dB/m dB 1152.148 2.67 24.37 40.24 4181.768 6.46 33.04 42.31 4874.000 7.17 34.05 42.82 6545.263 8.30 35.63 41.93 7311.000 8.84 36.15 41.53	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1152.148 2.67 24.37 40.24 52.01 4181.768 6.46 33.04 42.31 48.82 4874.000 7.17 34.05 42.82 49.39 6545.263 8.30 35.63 41.93 48.59 7311.000 8.84 36.15 41.53 46.87	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1152.148 2.67 24.37 40.24 52.01 38.81 4181.768 6.46 33.04 42.31 48.82 46.01 4874.000 7.17 34.05 42.82 49.39 47.79 6545.263 8.30 35.63 41.93 48.59 50.59 7311.000 8.84 36.15 41.53 46.87 50.33	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1152.148 2.67 24.37 40.24 52.01 38.81 74.00 4181.768 6.46 33.04 42.31 48.82 46.01 74.00 4874.000 7.17 34.05 42.82 49.39 47.79 74.00 6545.263 8.30 35.63 41.93 48.59 50.59 74.00 7311.000 8.84 36.15 41.53 46.87 50.33 74.00	



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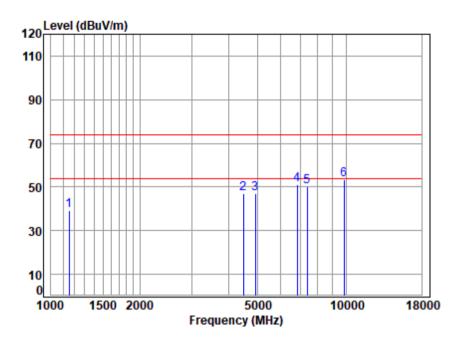
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11N20 MCS0

		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	1152.148	2.67	24.37	40.24	52.57	39.37	74.00	-34.63	peak
2	4495.125	6.76	33.59	42.55	49.24	47.04	74.00	-26.96	peak
3	4924.000	7.22	34.11	42.85	48.70	47.18	74.00	-26.82	peak
4	6835.278	8.46	35.80	41.77	48.39	50.88	74.00	-23.12	peak
5	7386.000	8.91	36.21	41.49	46.77	50.40	74.00	-23.60	peak
6	9848.000	10.73	37.81	38.22	43.15	53.47	74.00	-20.53	peak



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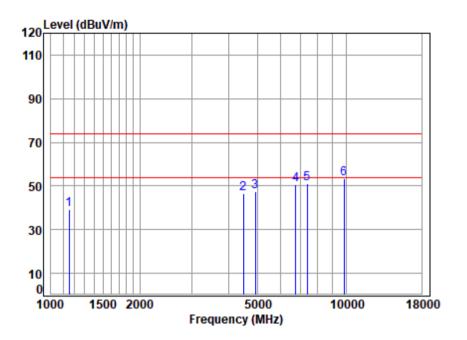
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR Mode : 2462 TX SE

Note : 2.4G WIFI 11N20 MCS0

		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	1152.148	2.6/	24.37	40.24	52.54	39.34	74.00	-34.66	peak
2	4495.125	6.76	33.59	42.55	48.73	46.53	74.00	-27.47	peak
3	4924.000	7.22	34.11	42.85	49.18	47.66	74.00	-26.34	peak
4	6756.708	8.42	35.76	41.81	48.20	50.57	74.00	-23.43	peak
5	7386.000	8.91	36.21	41.49	47.69	51.32	74.00	-22.68	peak
6	9848.000	10.73	37.81	38.22	42.97	53.29	74.00	-20.71	peak



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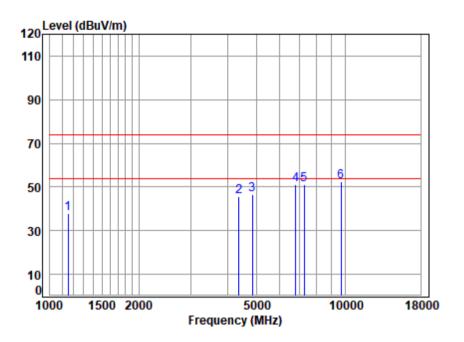
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2422 TX SE

Note : 2.4G WIFI 11N40 MCS0

	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	
4452 440	2 67	24.37	40.04	FO 00	37.60	74.00	26.22	
1152.148	2.6/	24.3/	40.24	50.88	37.68	74.00	-36.32	реак
4367.058	6.64	33.37	42.45	48.22	45.78	74.00	-28.22	peak
4844.000	7.14	34.02	42.79	48.13	46.50	74.00	-27.50	peak
6795.879	8.44	35.78	41.79	48.73	51.16	74.00	-22.84	peak
7266.000	8.79	36.12	41.55	47.89	51.25	74.00	-22.75	peak
9688.000	10.78	37.71	38.45	42.60	52.64	74.00	-21.36	peak
	MHz 1152.148 4367.058 4844.000 6795.879 7266.000	Freq Loss MHz dB 1152.148 2.67 4367.058 6.64 4844.000 7.14 6795.879 8.44 7266.000 8.79	Freq Loss Factor MHz dB dB/m 1152.148 2.67 24.37 4367.058 6.64 33.37 4844.000 7.14 34.02 6795.879 8.44 35.78 7266.000 8.79 36.12	Freq Loss Factor Factor MHz dB dB/m dB 1152.148 2.67 24.37 40.24 4367.058 6.64 33.37 42.45 4844.000 7.14 34.02 42.79 6795.879 8.44 35.78 41.79 7266.000 8.79 36.12 41.55	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1152.148 2.67 24.37 40.24 50.88 4367.058 6.64 33.37 42.45 48.22 4844.000 7.14 34.02 42.79 48.13 6795.879 8.44 35.78 41.79 48.73 7266.000 8.79 36.12 41.55 47.89	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1152.148 2.67 24.37 40.24 50.88 37.68 4367.058 6.64 33.37 42.45 48.22 45.78 4844.000 7.14 34.02 42.79 48.13 46.50 6795.879 8.44 35.78 41.79 48.73 51.16 7266.000 8.79 36.12 41.55 47.89 51.25	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1152.148 2.67 24.37 40.24 50.88 37.68 74.00 4367.058 6.64 33.37 42.45 48.22 45.78 74.00 4844.000 7.14 34.02 42.79 48.13 46.50 74.00 6795.879 8.44 35.78 41.79 48.73 51.16 74.00 7266.000 8.79 36.12 41.55 47.89 51.25 74.00	Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1152.148 2.67 24.37 40.24 50.88 37.68 74.00 -36.32 4367.058 6.64 33.37 42.45 48.22 45.78 74.00 -28.22 4844.000 7.14 34.02 42.79 48.13 46.50 74.00 -27.50



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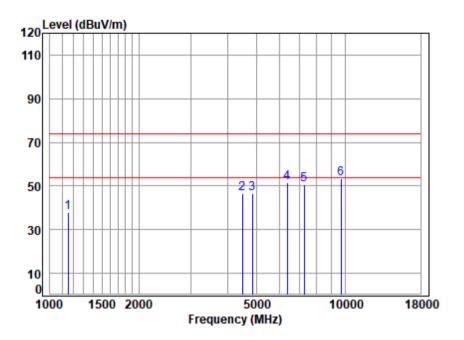
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2422 TX SE

Note : 2.4G WIFI 11N40 MCS0

	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	
4452 440	2 67	24.27	40.04	F0 07	22.22	74.00	26.22	
1152.148	2.6/	24.3/	40.24	50.97	3/.//	74.00	-36.23	реак
4482.150	6.74	33.57	42.54	48.95	46.72	74.00	-27.28	peak
4844.000	7.14	34.02	42.79	48.34	46.71	74.00	-27.29	peak
6377.195	8.28	35.48	42.02	49.63	51.37	74.00	-22.63	peak
7266.000	8.79	36.12	41.55	47.31	50.67	74.00	-23.33	peak
9688.000	10.78	37.71	38.45	43.28	53.32	74.00	-20.68	peak
	MHz 1152.148 4482.150 4844.000 6377.195 7266.000	Freq Loss MHz dB 1152.148 2.67 4482.150 6.74 4844.000 7.14 6377.195 8.28 7266.000 8.79	Freq Loss Factor MHz dB dB/m 1152.148 2.67 24.37 4482.150 6.74 33.57 4844.000 7.14 34.02 6377.195 8.28 35.48 7266.000 8.79 36.12	Freq Loss Factor Factor MHz dB dB/m dB 1152.148 2.67 24.37 40.24 4482.150 6.74 33.57 42.54 4844.000 7.14 34.02 42.79 6377.195 8.28 35.48 42.02 7266.000 8.79 36.12 41.55	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1152.148 2.67 24.37 40.24 50.97 4482.150 6.74 33.57 42.54 48.95 4844.000 7.14 34.02 42.79 48.34 6377.195 8.28 35.48 42.02 49.63 7266.000 8.79 36.12 41.55 47.31	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1152.148 2.67 24.37 40.24 50.97 37.77 4482.150 6.74 33.57 42.54 48.95 46.72 4844.000 7.14 34.02 42.79 48.34 46.71 6377.195 8.28 35.48 42.02 49.63 51.37 7266.000 8.79 36.12 41.55 47.31 50.67	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1152.148 2.67 24.37 40.24 50.97 37.77 74.00 4482.150 6.74 33.57 42.54 48.95 46.72 74.00 4844.000 7.14 34.02 42.79 48.34 46.71 74.00 6377.195 8.28 35.48 42.02 49.63 51.37 74.00 7266.000 8.79 36.12 41.55 47.31 50.67 74.00	



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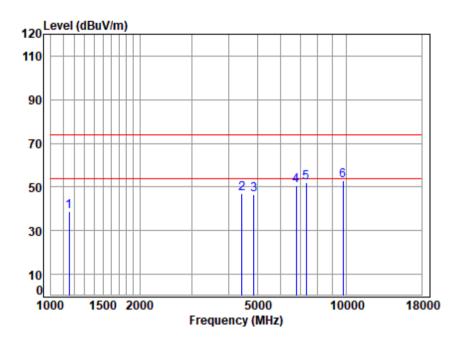
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Report No.: SZEM200800848302

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2437 TX SE

Note : 2.4G WIFI 11N40 MCS0

		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	1152.148	2 67	24 27	10 21	E1 9/	39 64	74 00	25 26	nook
1	1132.140	2.07	24.57	40.24	51.04	30.04	74.00	-33.30	peak
2	4430.628	6.70	33.48	42.50	49.37	47.05	74.00	-26.95	peak
3	4874.000	7.17	34.05	42.82	48.12	46.52	74.00	-27.48	peak
4	6776.265	8.43	35.77	41.80	48.39	50.79	74.00	-23.21	peak
5	7311.000	8.84	36.15	41.53	48.53	51.99	74.00	-22.01	peak
6	9748.000	10.76	37.75	38.37	43.00	53.14	74.00	-20.86	peak



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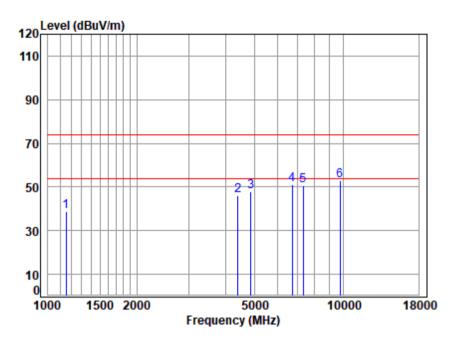
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 08483CR Mode : 2437 TX SE

Note : 2.4G WIFI 11N40 MCS0

		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	1152.148	2.67	24.37	40.24	52.05	38.85	74.00	-35.15	peak
2	4405.090	6.67	33.44	42.48	48.65	46.28	74.00	-27.72	peak
3	4874.000	7.17	34.05	42.82	49.53	47.93	74.00	-26.07	peak
4	6717.762	8.40	35.73	41.83	48.60	50.90	74.00	-23.10	peak
5	7311.000	8.84	36.15	41.53	47.11	50.57	74.00	-23.43	peak
6	9748.000	10.76	37.75	38.37	42.95	53.09	74.00	-20.91	peak



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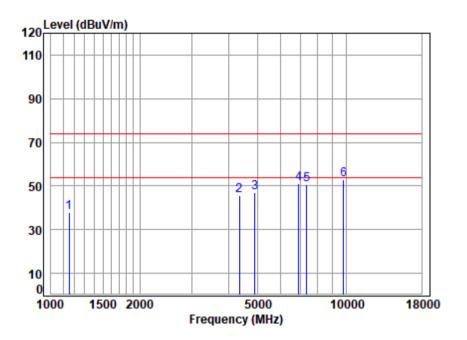
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 08483CR Mode : 2452 TX SE

Note : 2.4G WIFI 11N40 MCS0

	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	
4452 440	2 67	24.37	40.04	F4 00	27.02	74.00	26.40	
1152.148	2.6/	24.37	40.24	51.02	37.82	74.00	-36.18	реак
4354.454	6.63	33.35	42.44	48.30	45.84	74.00	-28.16	peak
4904.000	7.20	34.09	42.84	48.67	47.12	74.00	-26.88	peak
6914.763	8.50	35.85	41.73	48.49	51.11	74.00	-22.89	peak
7356.000	8.88	36.19	41.50	47.11	50.68	74.00	-23.32	peak
9808.000	10.75	37.79	38.28	42.84	53.10	74.00	-20.90	peak
	MHz 1152.148 4354.454 4904.000 6914.763 7356.000	Freq Loss MHz dB 1152.148 2.67 4354.454 6.63 4904.000 7.20 6914.763 8.50 7356.000 8.88	Freq Loss Factor MHz dB dB/m 1152.148 2.67 24.37 4354.454 6.63 33.35 4904.000 7.20 34.09 6914.763 8.50 35.85 7356.000 8.88 36.19	Freq Loss Factor Factor MHz dB dB/m dB 1152.148 2.67 24.37 40.24 4354.454 6.63 33.35 42.44 4904.000 7.20 34.09 42.84 6914.763 8.50 35.85 41.73 7356.000 8.88 36.19 41.50	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1152.148 2.67 24.37 40.24 51.02 4354.454 6.63 33.35 42.44 48.30 4904.000 7.20 34.09 42.84 48.67 6914.763 8.50 35.85 41.73 48.49 7356.000 8.88 36.19 41.50 47.11	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1152.148 2.67 24.37 40.24 51.02 37.82 4354.454 6.63 33.35 42.44 48.30 45.84 4904.000 7.20 34.09 42.84 48.67 47.12 6914.763 8.50 35.85 41.73 48.49 51.11 7356.000 8.88 36.19 41.50 47.11 50.68	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1152.148 2.67 24.37 40.24 51.02 37.82 74.00 4354.454 6.63 33.35 42.44 48.30 45.84 74.00 4904.000 7.20 34.09 42.84 48.67 47.12 74.00 6914.763 8.50 35.85 41.73 48.49 51.11 74.00 7356.000 8.88 36.19 41.50 47.11 50.68 74.00	Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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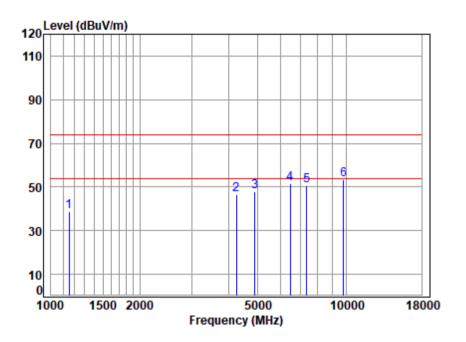
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08483CR Mode : 2452 TX SE

Note : 2.4G WIFI 11N40 MCS0

		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	1152.148	2.67	24.37	40.24	52.11	38.91	74.00	-35.09	peak
2	4254.921	6.53	33.17	42.36	49.18	46.52	74.00	-27.48	peak
3	4904.000	7.20	34.09	42.84	49.29	47.74	74.00	-26.26	peak
4	6470.026	8.28	35.57	41.97	49.45	51.33	74.00	-22.67	peak
5	7356.000	8.88	36.19	41.50	47.12	50.69	74.00	-23.31	peak
6	9808.000	10.75	37.79	38.28	42.92	53.18	74.00	-20.82	peak



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Emission Test Results

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

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

Limit:

Frequency of emission(MHz)	Conducted limit(dBµV)						
	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: 23.5 °C Humidity: 55.9 % RH Atmospheric Pressure: 1000 mbar

8.1.2 Test Mode Description

0.1.2 1030	o. H.Z. Test mede bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	02	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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.					



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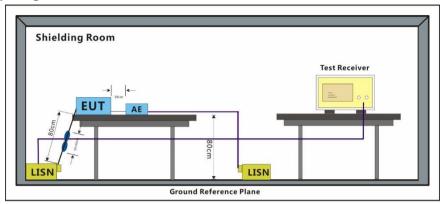
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8.1.3 Test Setup Diagram



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



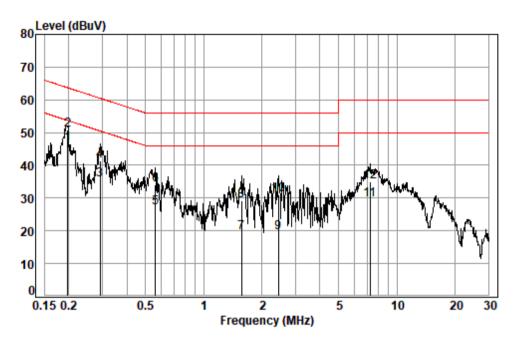
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Test Mode: 02: Line: Live line



: Shielding Room

Condition: Line Job No. : 08483CR

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1976	0.02	9.59	36.95	46.56	53.71	-7.15	Average
2	0.1976	0.02	9.59	41.25	50.86	63.71	-12.85	QP
3	0.2909	0.04	9.59	25.85	35.48	50.50	-15.02	Average
4	0.2909	0.04	9.59	31.80	41.43	60.50	-19.07	QP
5	0.5641	0.07	9.60	17.52	27.19	46.00	-18.81	Average
6	0.5641	0.07	9.60	24.33	34.00	56.00	-22.00	QP
7	1.5684	0.13	9.61	9.79	19.53	46.00	-26.47	Average
8	1.5684	0.13	9.61	19.48	29.22	56.00	-26.78	QP
9	2.4346	0.16	9.64	9.61	19.41	46.00	-26.59	Average
10	2.4346	0.16	9.64	21.31	31.11	56.00	-24.89	QP
11	7.2518	0.17	9.73	19.50	29.40	50.00	-20.60	Average
12	7.2518	0.17	9.73	24.94	34.84	60.00	-25.16	QP



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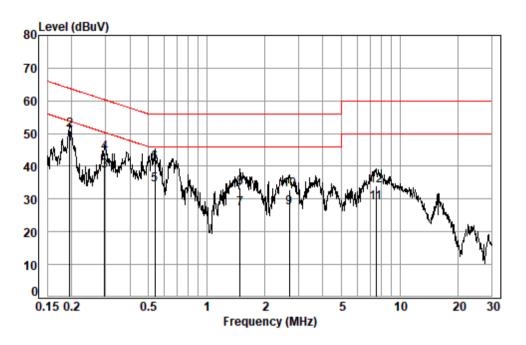
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Test Mode: 02: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 08483CR

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1955	0.02	9.55	37.42	46.99	53.80	-6.81	Average
2	0.1955	0.02	9.55	41.52	51.09	63.80	-12.71	QP
3	0.2971	0.04	9.54	28.99	38.57	50.32	-11.75	Average
4	0.2971	0.04	9.54	34.56	44.14	60.32	-16.18	QP
5	0.5407	0.06	9.54	24.70	34.30	46.00	-11.70	Average
6	0.5407	0.06	9.54	31.46	41.06	56.00	-14.94	QP
7	1.4874	0.13	9.56	17.31	27.00	46.00	-19.00	Average
8	1.4874	0.13	9.56	23.77	33.46	56.00	-22.54	QP
9	2.6783	0.16	9.57	17.57	27.30	46.00	-18.70	Average
10	2.6783	0.16	9.57	22.98	32.71	56.00	-23.29	QP
11	7.5258	0.17	9.72	19.09	28.98	50.00	-21.02	Average
12	7.5258	0.17	9.72	24.10	33.99	60.00	-26.01	QP



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Test Setup Photo

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. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	16.470	16.510	99.76	0.01
802.11b	2437	SISO	1	16.460	16.500	99.76	0.01
	2462	SISO	1	16.470	16.510	99.76	0.01
	2412	SISO	1	2.726	2.766	98.55	0.06
802.11g	2437	SISO	1	2.726	2.767	98.52	0.06
	2462	SISO	1	2.726	2.767	98.52	0.06
	2412	SISO	1	2.532	2.573	98.41	0.07
802.11n(HT20)	2437	SISO	1	2.535	2.576	98.41	0.07
	2462	SISO	1	2.535	2.576	98.41	0.07
802.11n(HT40)	2422	SISO	1	1.228	1.267	96.92	0.14
	2437	SISO	1	1.228	1.267	96.92	0.14
	2452	SISO	1	1.227	1.266	96.92	0.14



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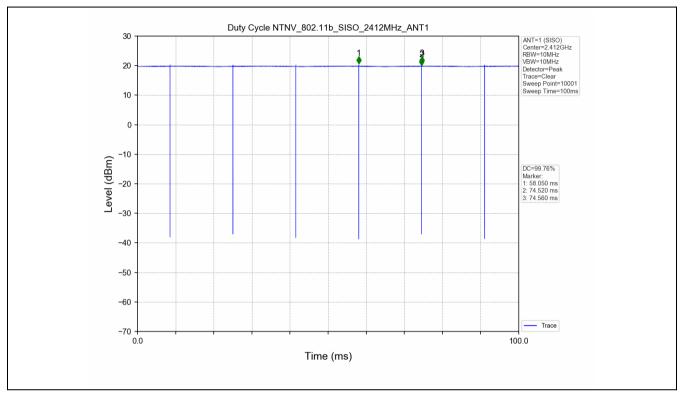
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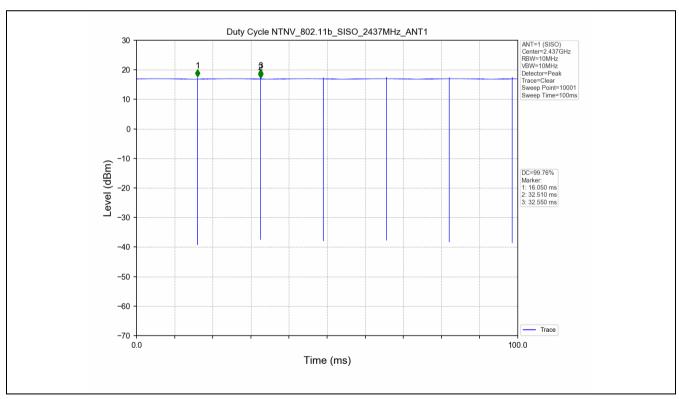


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1.2 Test Graph







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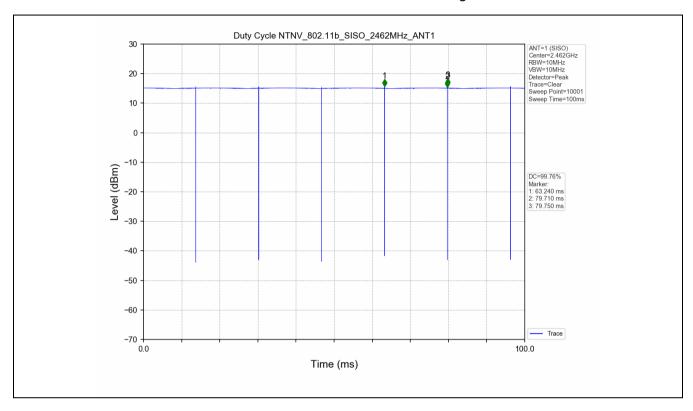
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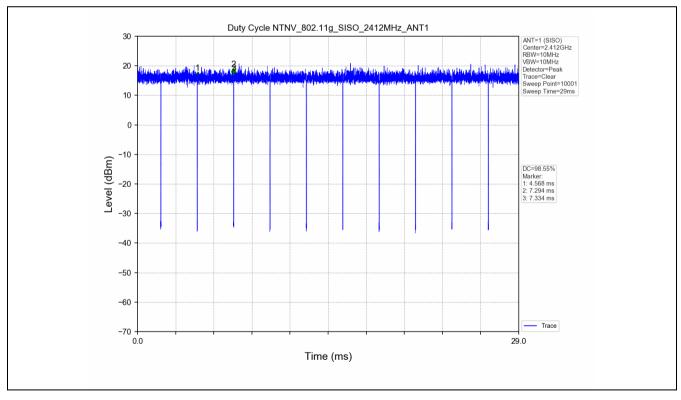
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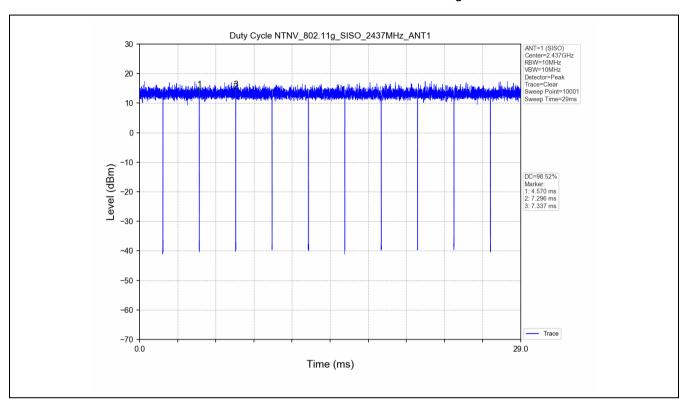
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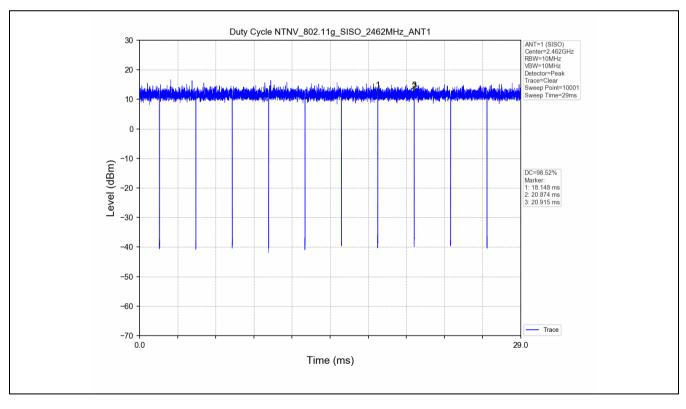
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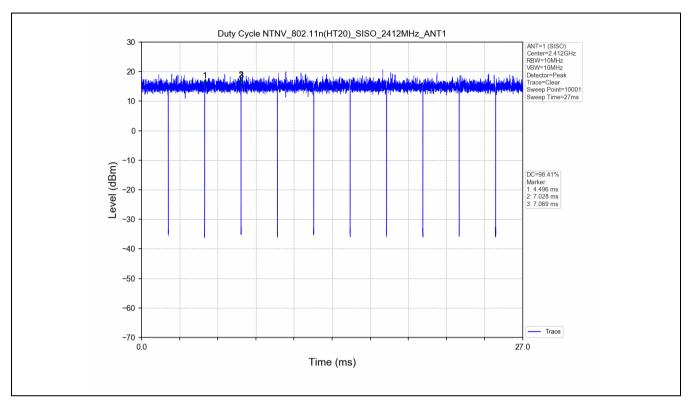
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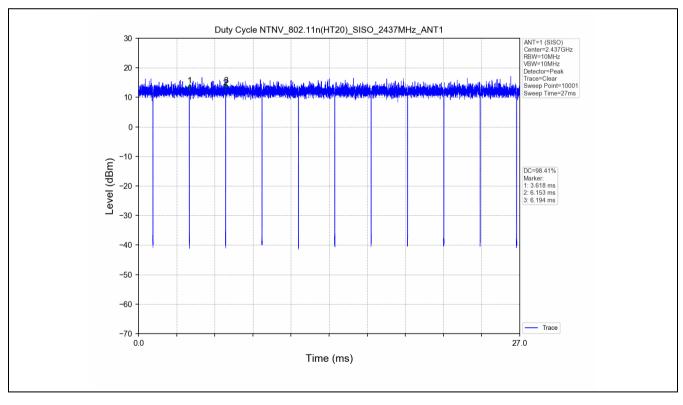
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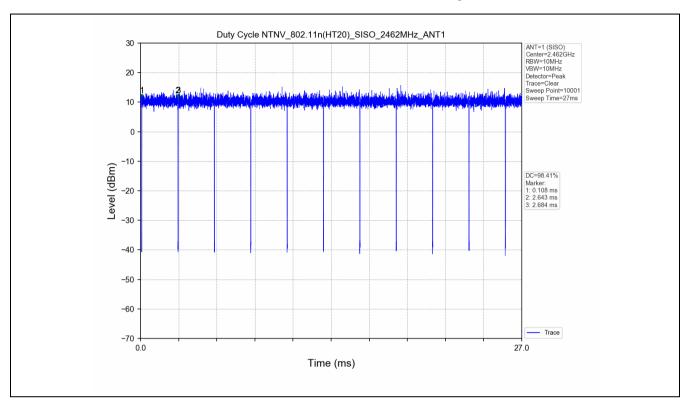
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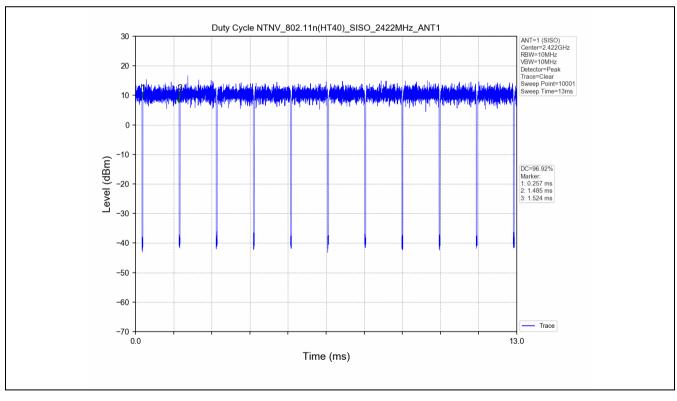
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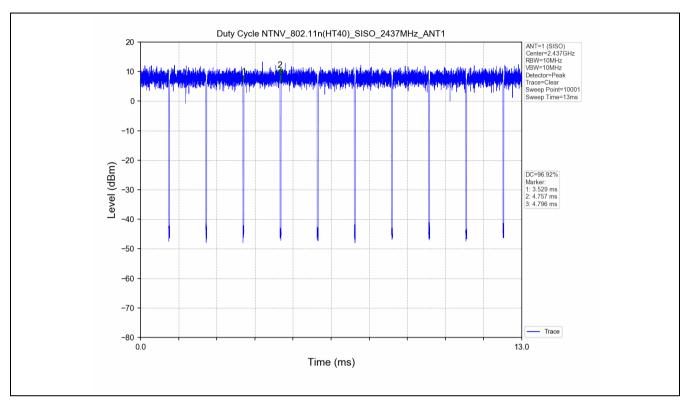
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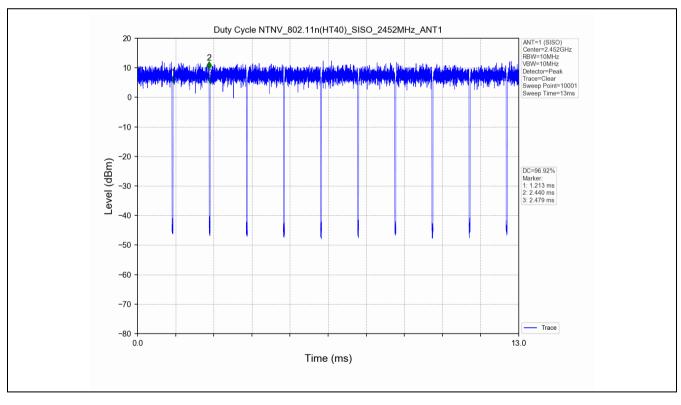
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2. Bandwidth

2.1 Test Result

Took Mode	Frequency	TV Tuno	ANT No.	6dB Bar	Vandiat	
Test Mode	(MHz)	TX Type		Test Result (MHz)	Limits (MHz)	Verdict
	2412	SISO	1	9.106	≥0.5	PASS
802.11b	2437	SISO	1	9.118	≥0.5	PASS
	2462	SISO	1	9.113	≥0.5	PASS
	2412	SISO	1	16.404	≥0.5	PASS
802.11g	2437	SISO	1	16.415	≥0.5	PASS
	2462	SISO	1	16.393	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.637	≥0.5	PASS
	2437	SISO	1	17.633	≥0.5	PASS
	2462	SISO	1	17.627	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.776	≥0.5	PASS
	2437	SISO	1	35.757	≥0.5	PASS
	2452	SISO	1	35.789	≥0.5	PASS



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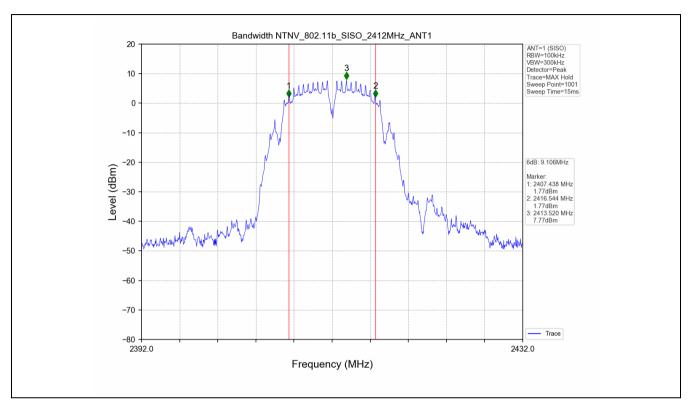
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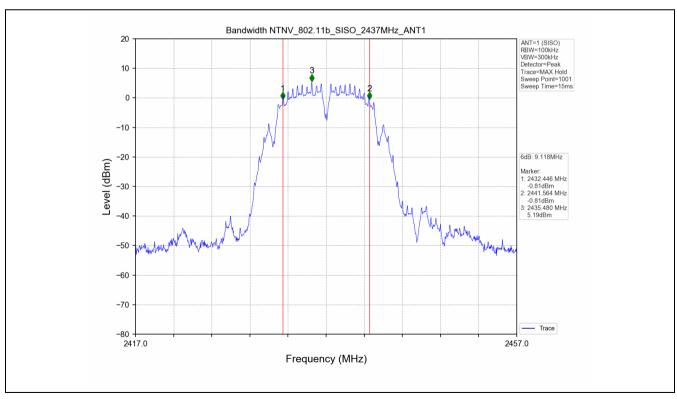


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2.2 Test Graph - 6dB Bandwidth







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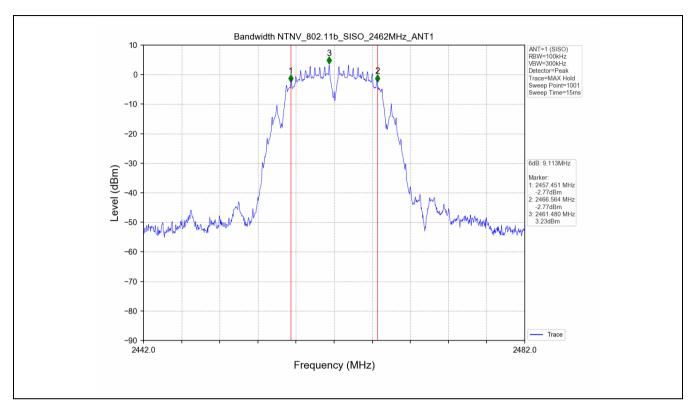
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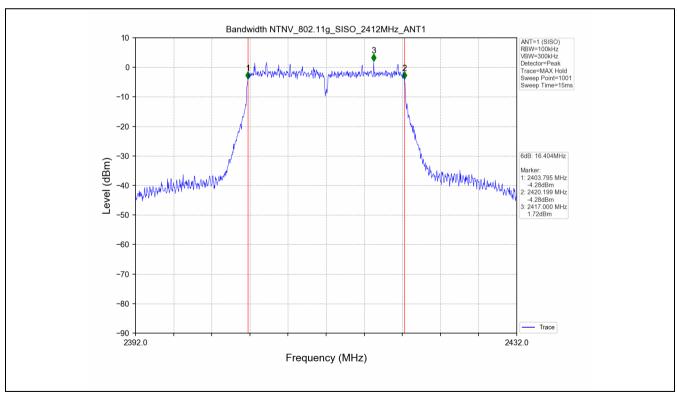
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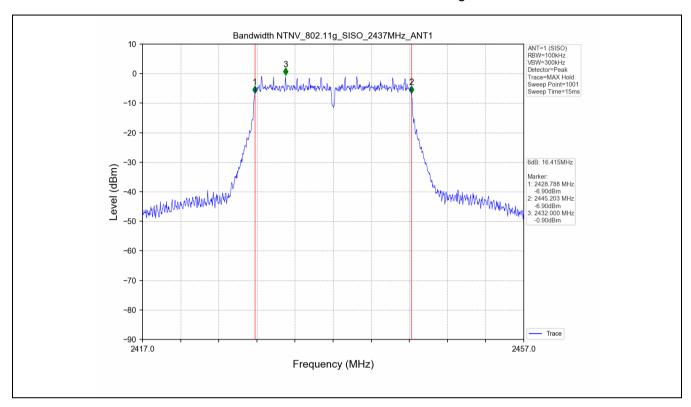
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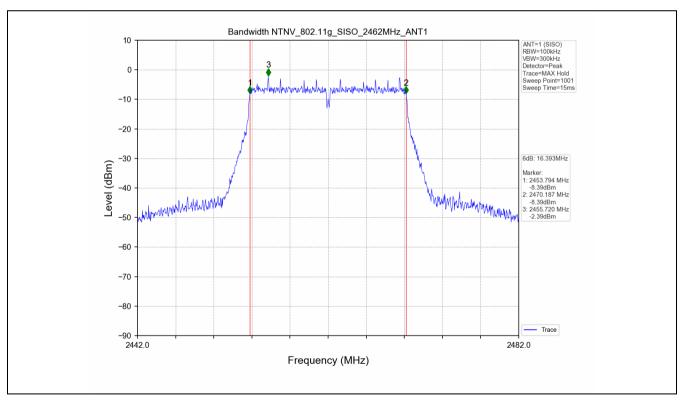
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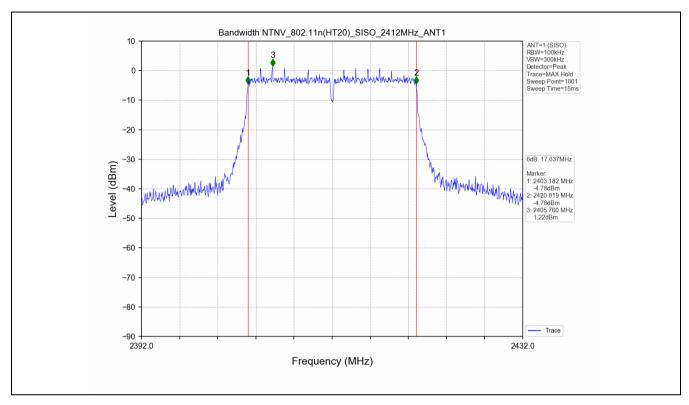
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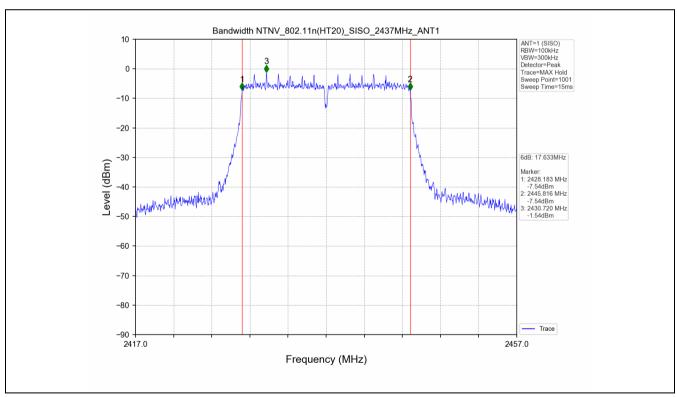
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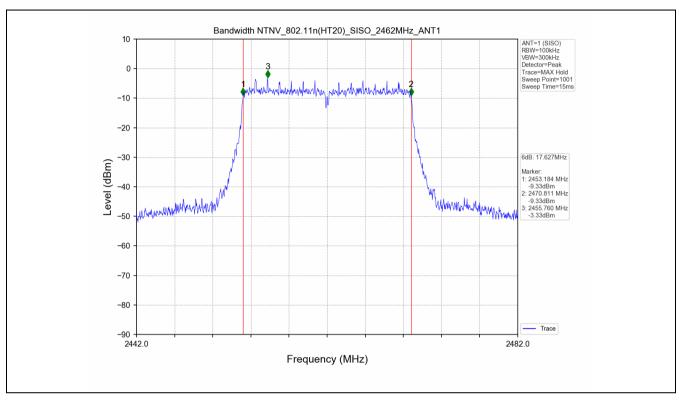
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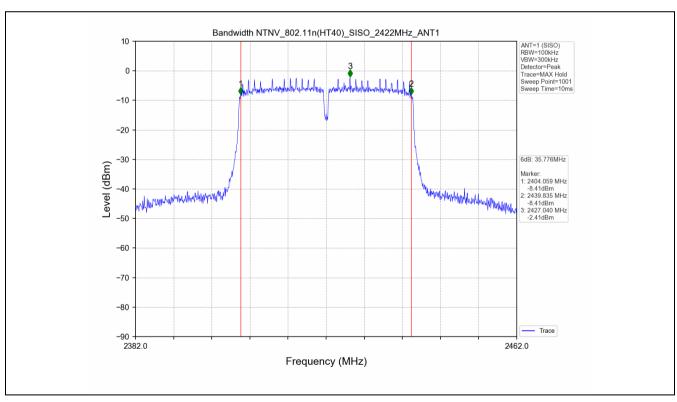
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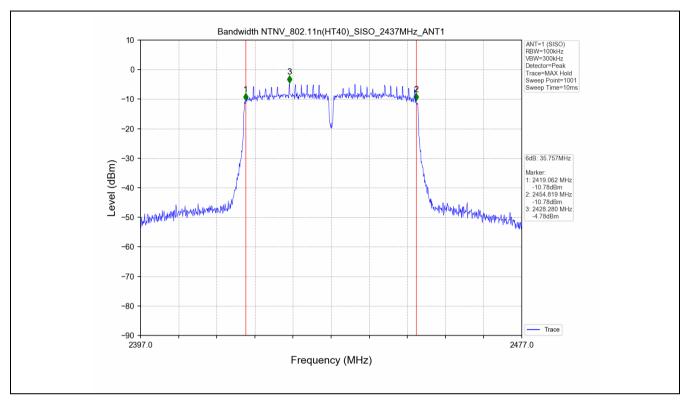
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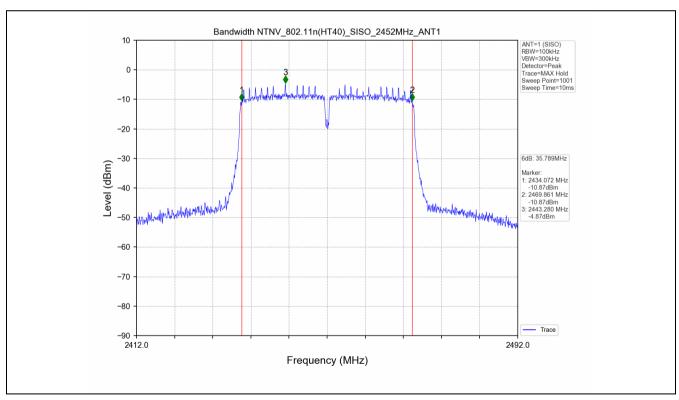
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2412	SISO	20.28	30	PASS
802.11b	2437	SISO	17.52	30	PASS
	2462	SISO	15.68	30	PASS
	2412	SISO	21.51	30	PASS
802.11g	2437	SISO	18.90	30	PASS
	2462	SISO	17.08	30	PASS
	2412	SISO	20.83	30	PASS
802.11n(HT20)	2437	SISO	18.20	30	PASS
	2462	SISO	16.33	30	PASS
802.11n(HT40)	2422	SISO	20.42	30	PASS
	2437	SISO	17.92	30	PASS
	2452	SISO	17.65	30	PASS



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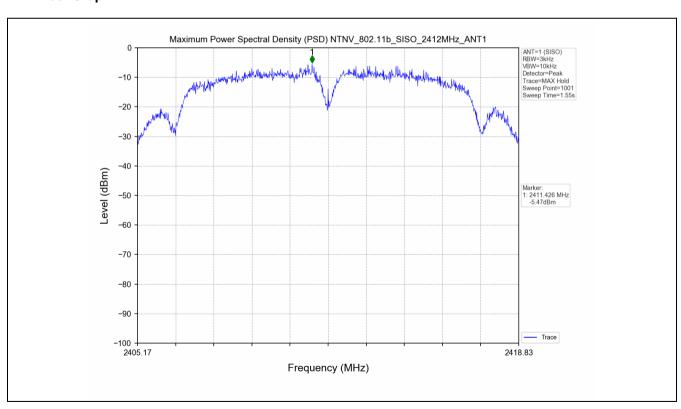
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2412	SISO	-5.47	≤8	PASS
802.11b	2437	SISO	-8.36	≤8	PASS
	2462	SISO	-10.65	≤8	PASS
	2412	SISO	-11.34	≤8	PASS
802.11g	2437	SISO	-12.83	≤8	PASS
	2462	SISO	-15.59	≤8	PASS
	2412	SISO	-12.53	≤8	PASS
802.11n(HT20)	2437	SISO	-14.39	≤8	PASS
	2462	SISO	-16.49	≤8	PASS
802.11n(HT40)	2422	SISO	-15.16	≤8	PASS
	2437	SISO	-18.25	≤8	PASS
	2452	SISO	-17.91	≤8	PASS

4.2 Test Graph





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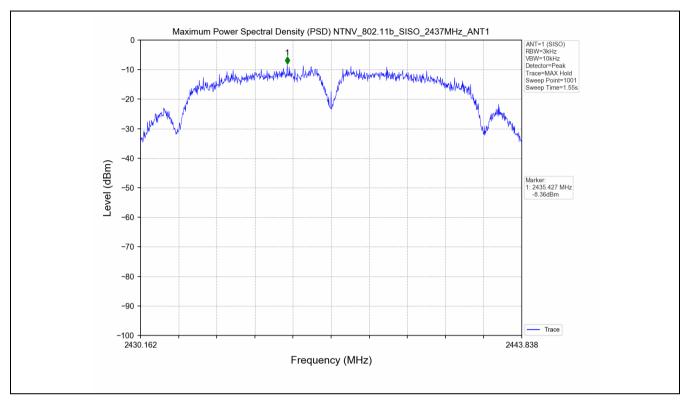
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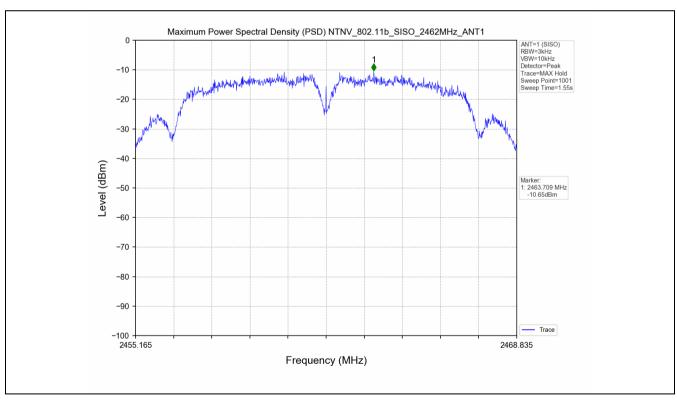
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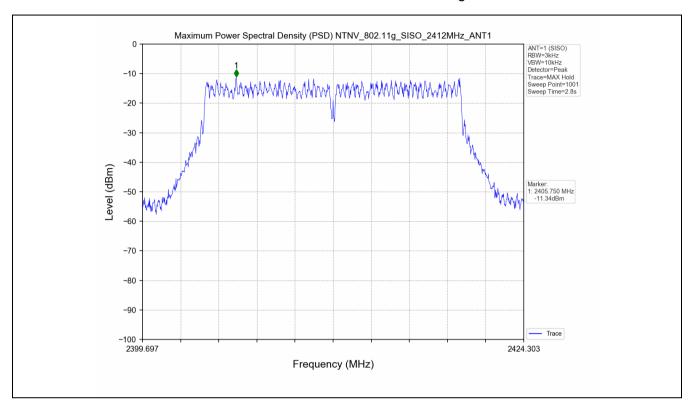
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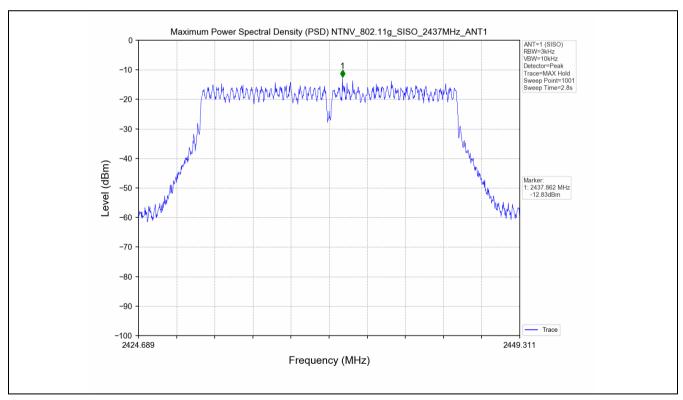
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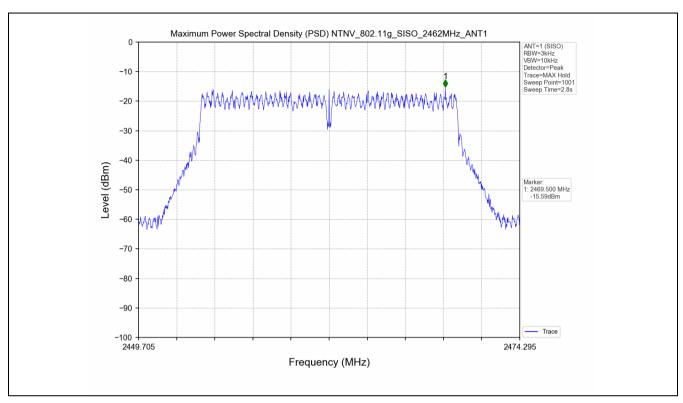
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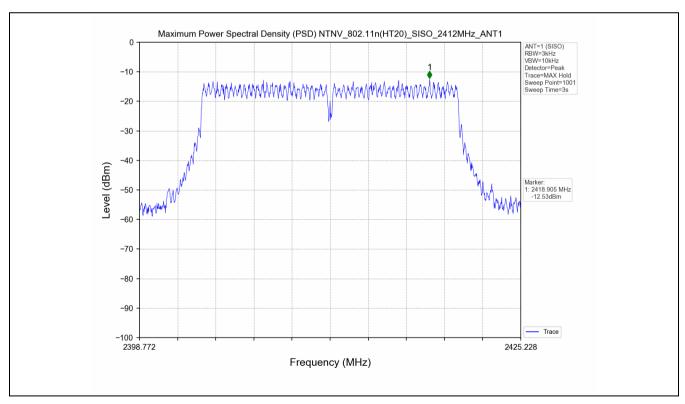
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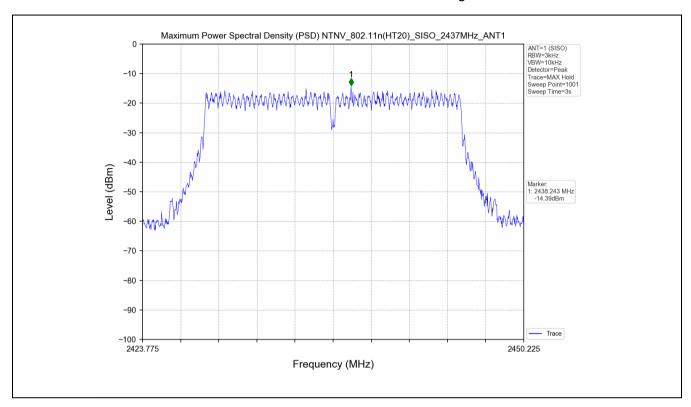
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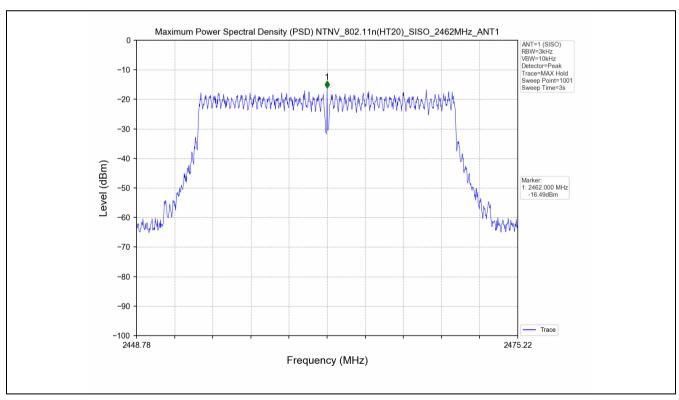
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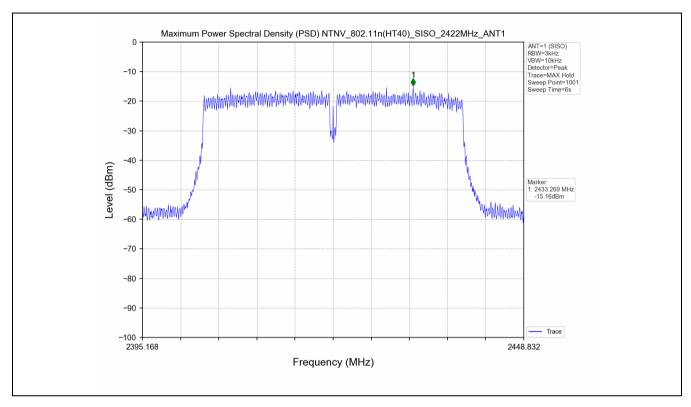
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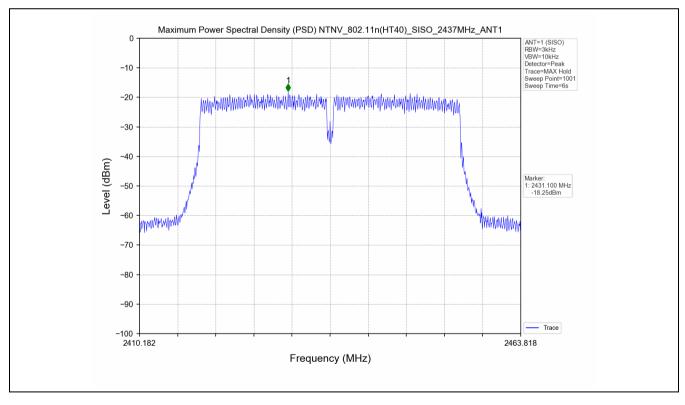
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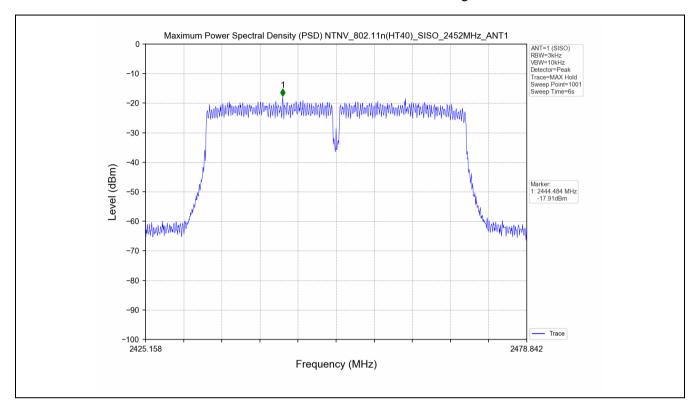
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-12.10	PASS
	2437	SISO	1	Refer to test graph	-12.10	PASS
	2462	SISO	1	Refer to test graph	-12.10	PASS
802.11g	2412	SISO	1	Refer to test graph	-18.02	PASS
	2437	SISO	1	Refer to test graph	-18.02	PASS
	2462	SISO	1	Refer to test graph	-18.02	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-18.78	PASS
	2437	SISO	1	Refer to test graph	-18.78	PASS
	2462	SISO	1	Refer to test graph	-18.78	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-22.14	PASS
	2437	SISO	1	Refer to test graph	-22.14	PASS
	2452	SISO	1	Refer to test graph	-22.14	PASS



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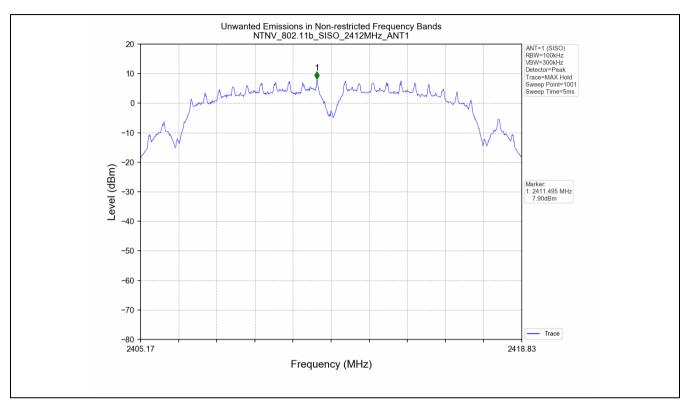
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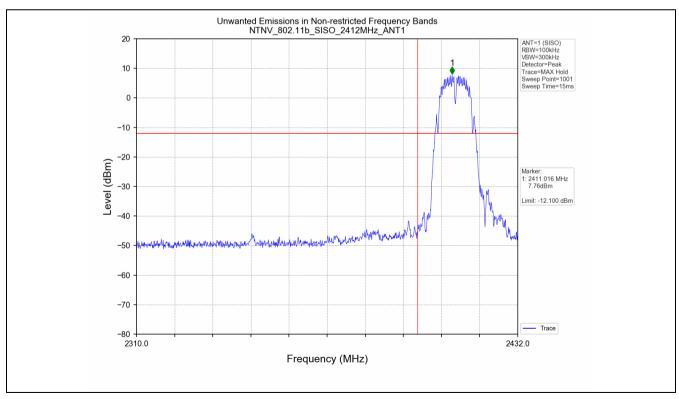


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5.2 Test Graph







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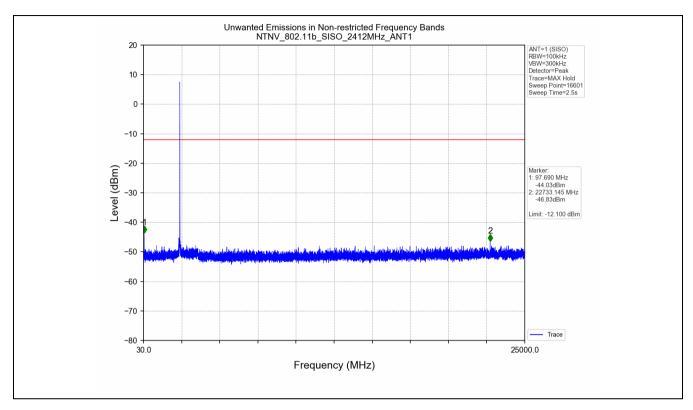
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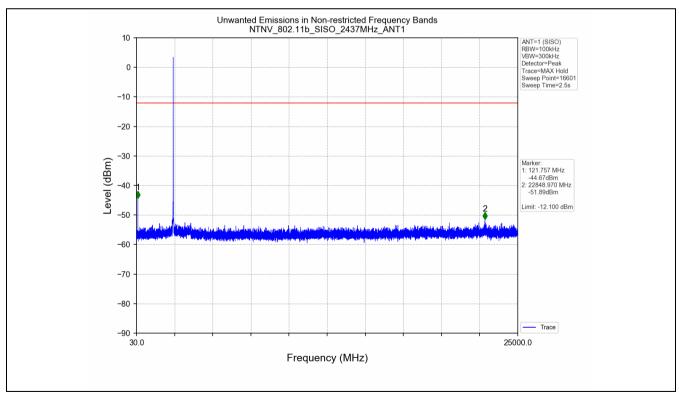
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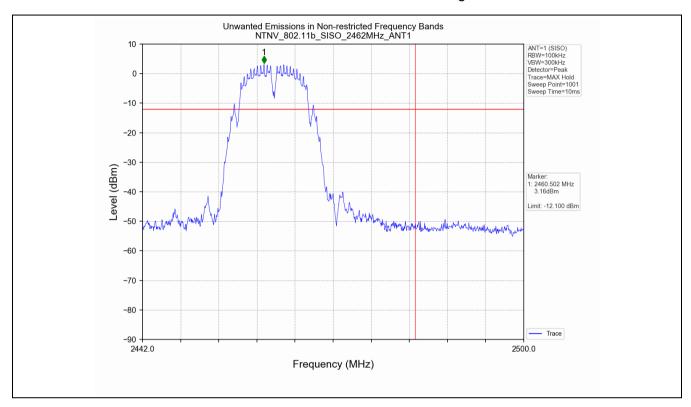
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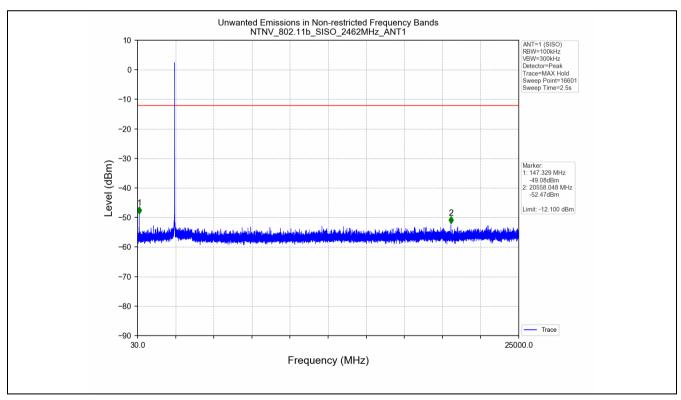
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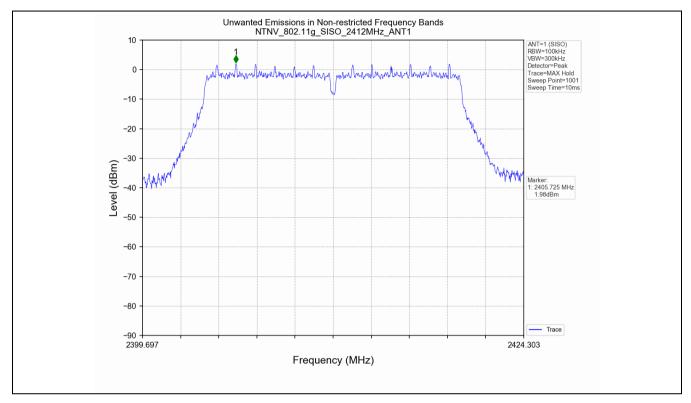
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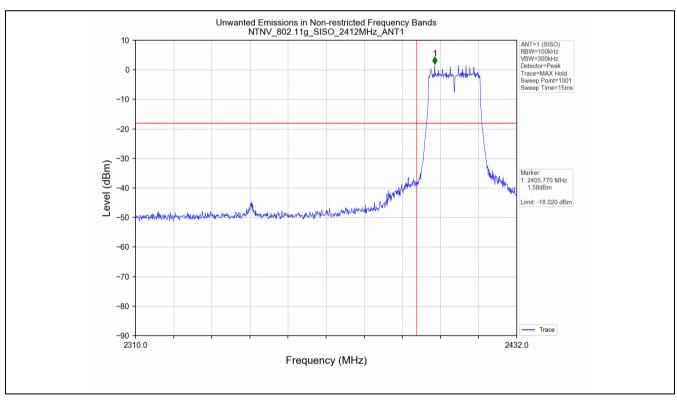
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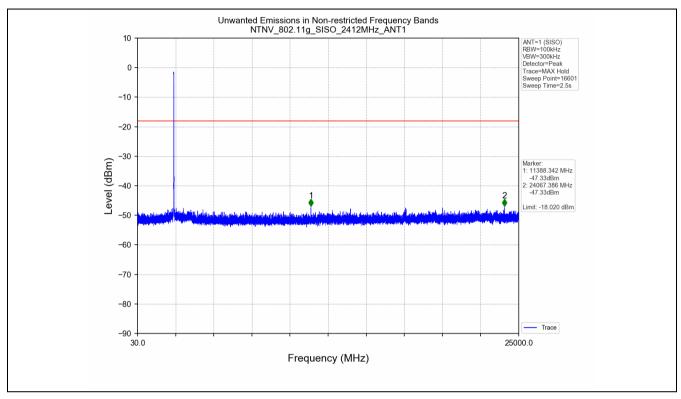
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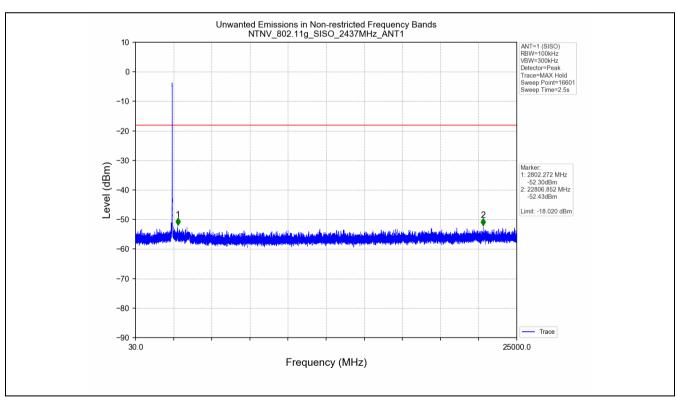
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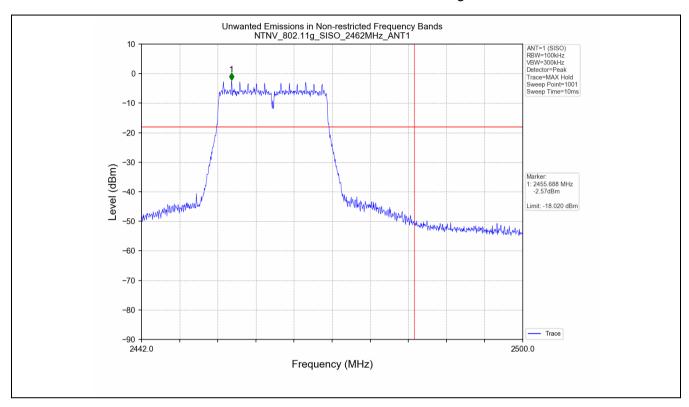
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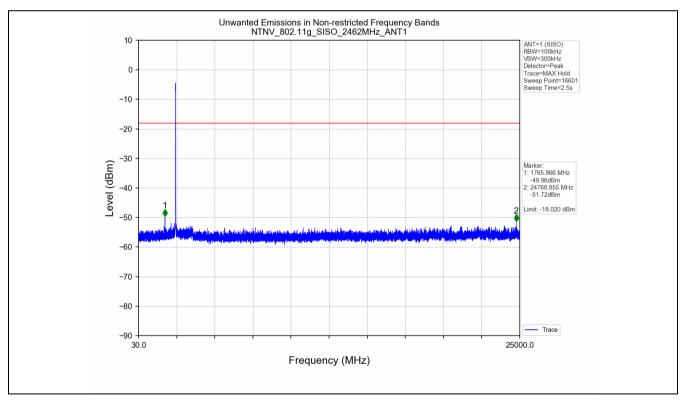
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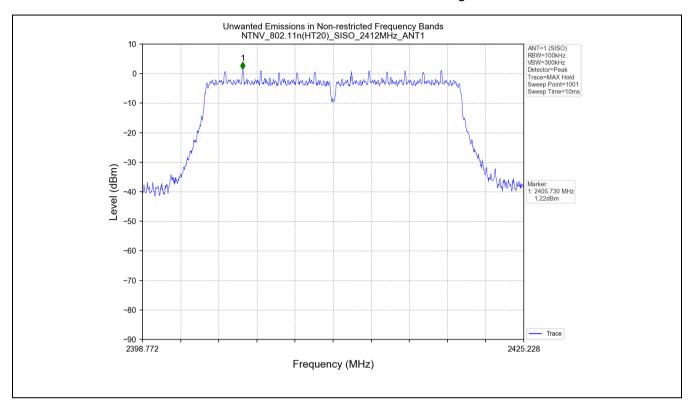
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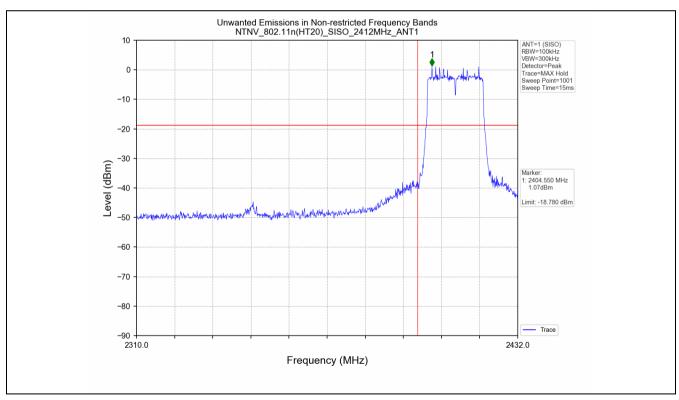
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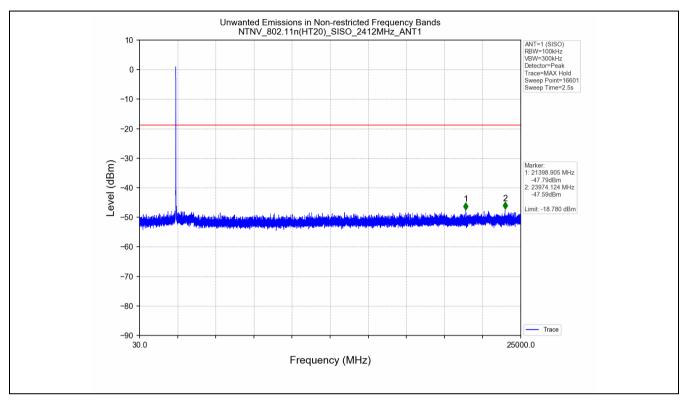
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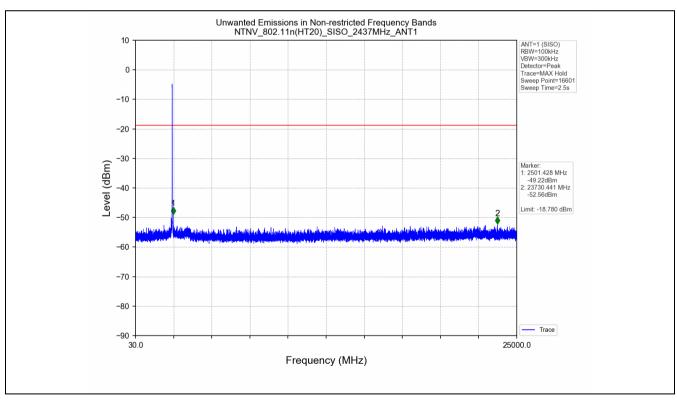
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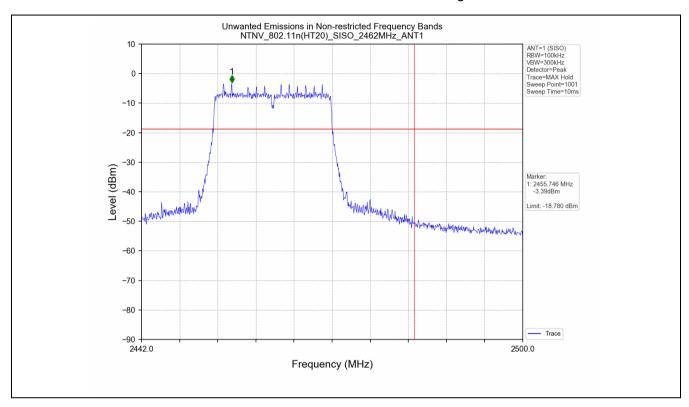
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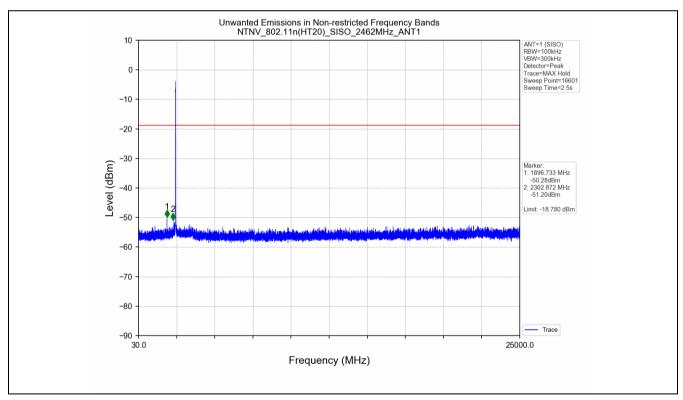
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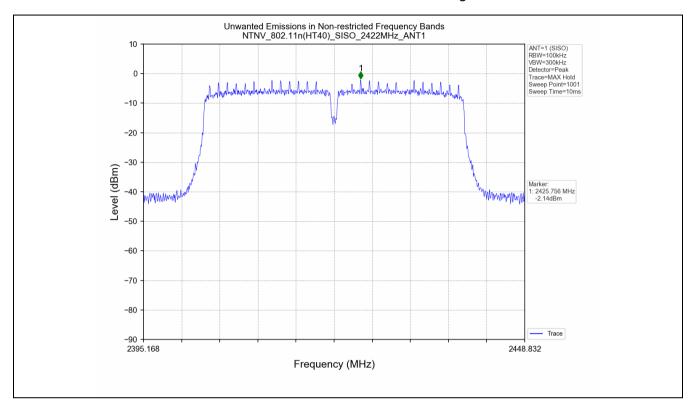
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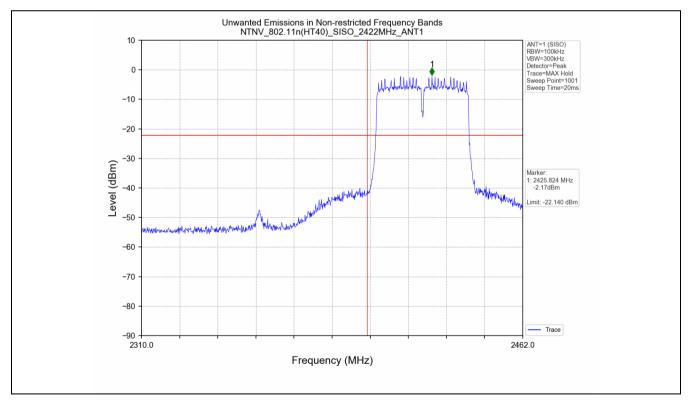
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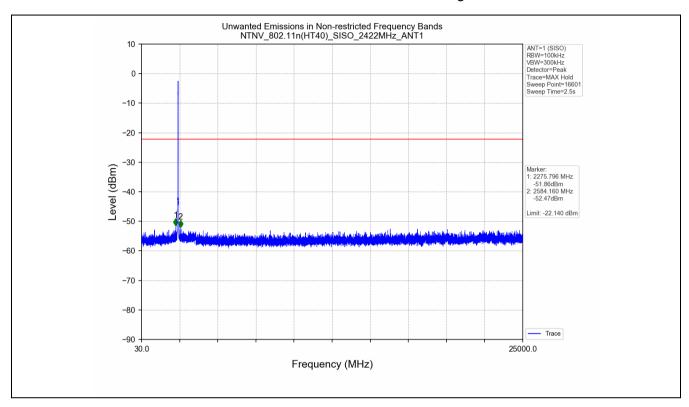
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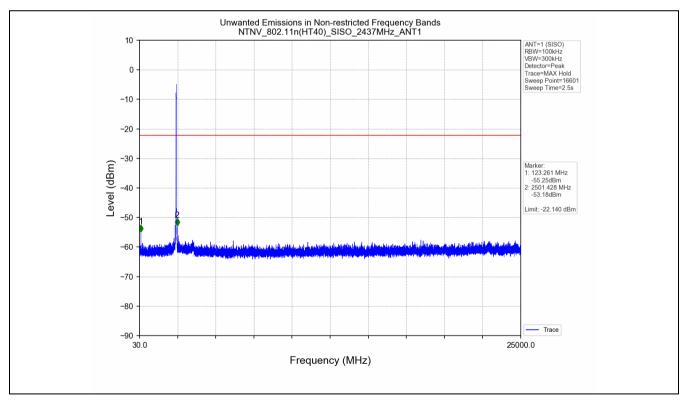
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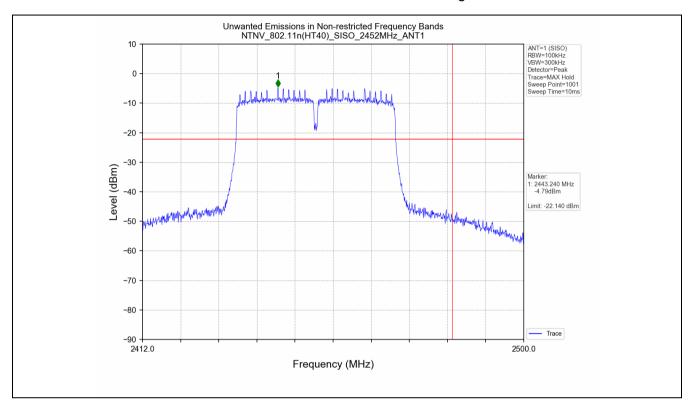
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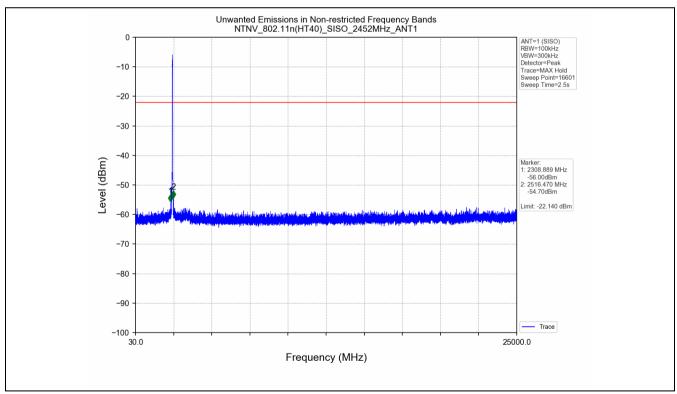
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- End of the Report -



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