

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900348002

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TEST REPORT

Application No.: SZCR2409003480AT

Applicant: BonCor Medical

Address of Applicant: 31000 Telegraph Rd, Suite 110, Bingham Farms Michigan 48025, United

Manufacturer: Hunan Jiai Intelligent Technology Co., Ltd

Address of Manufacturer: 2nd Floor, Building 1, Science and Technology Innovation Industrial Park

Phase 1, Dengta Road, Wuxi Street Economic Development Zone, Qiyang

City, Hunan Province, China

Factory: Hunan Jiai Intelligent Technology Co., Ltd

Address of Factory: 2nd Floor, Building 1, Science and Technology Innovation Industrial Park

Phase 1, Dengta Road, Wuxi Street Economic Development Zone, Qiyang

City, Hunan Province, China

Equipment Under Test (EUT):

EUT Name: NoveeWatch Model No.: NoveeWatch Trade mark: NoveeWatch FCC ID: 2BK6SNOVEE

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

Date of Receipt: 2024-09-09

Date of Test: 2024-09-11 to 2024-11-14

2024-11-15 Date of Issue:

Pass* Test Result:

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		2024-11-15		Original			

Authorized for issue by:		
	Bolisonti	
	Edison Li/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	



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2 **Test Summary**

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

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



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General Information

Details of E.U.T. 4.1

Power supply:	DC 3.85V, 700mAh rechargeable battery which charged by USB port
Cable(s):	USB cable:76cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
	802.11b: DSSS(CCK, DQPSK, DBPSK)
Modulation Type:	802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
	802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Numbers:	802.11b/g, 802.11n HT20: 11 Channels
Antenna Type:	FPC antenna
Antenna Gain:	0.74dBi

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
RF Cable	SGS	N/A(Cable loss:0.8dB)	N/A

4.3 Measurement Uncertainty

4.0 Medodrement oncertainty					
Test Item	Measurement Uncertainty				
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB				
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)				
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m				
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)				
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				

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 **Abnormalities from Standard Conditions**

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

adiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Radiated Spurious Emissions Above 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.74dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

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

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

Limit:

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

7.1.1 E.U.T. Operation

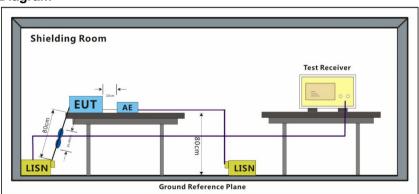
Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/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
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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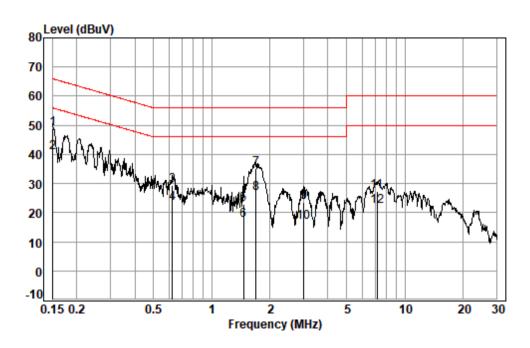


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Test Mode: 04: Line: Live line



: Shielding Room

Condition: Line Job No. : 03480AT

Test mode: 04

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	9.60	39.06	48.72	65.96	-17.24	QP
2 *	0.1508	0.06	9.60	31.05	40.71	55.96	-15.25	Average
3	0.6271	0.08	9.65	19.49	29.22	56.00	-26.78	QP
4	0.6271	0.08	9.65	13.49	23.22	46.00	-22.78	Average
5	1.4640	0.10	9.68	13.16	22.94	56.00	-33.06	QP
6	1.4640	0.10	9.68	7.47	17.25	46.00	-28.75	Average
7	1.6981	0.10	9.67	25.32	35.09	56.00	-20.91	QP
8	1.6981	0.10	9.67	16.78	26.55	46.00	-19.45	Average
9	3.0094	0.11	9.68	13.73	23.52	56.00	-32.48	QP
10	3.0094	0.11	9.68	6.74	16.53	46.00	-29.47	Average
11	7.1754	0.16	9.75	17.29	27.20	60.00	-32.80	QP
12	7.1754	0.16	9.75	12.42	22.33	50.00	-27.67	Average



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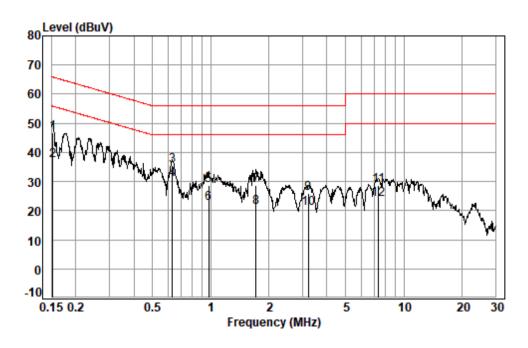


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Test Mode: 04: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03480AT

Test mode: 04

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1524	0.06	9.61	37.07	46.74	65.87	-19.13	QP
2	0.1524	0.06	9.61	27.59	37.26	55.87	-18.61	Average
3	0.6338	0.08	9.66	25.73	35.47	56.00	-20.53	QP
4 *	0.6338	0.08	9.66	21.08	30.82	46.00	-15.18	Average
5	0.9787	0.09	9.68	18.88	28.65	56.00	-27.35	QP
6	0.9787	0.09	9.68	12.64	22.41	46.00	-23.59	Average
7	1.7162	0.10	9.63	19.04	28.77	56.00	-27.23	QP
8	1.7162	0.10	9.63	11.44	21.17	46.00	-24.83	Average
9	3.2069	0.11	9.62	16.04	25.77	56.00	-30.23	QP
10	3.2069	0.11	9.62	11.06	20.79	46.00	-25.21	Average
11	7.4071	0.17	9.68	18.75	28.60	60.00	-31.40	QP
12	7.4071	0.17	9.68	14.03	23.88	50.00	-26.12	Average



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7.2 Conducted Peak Output Power

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

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

24.6 °C Temperature: Humidity: 57.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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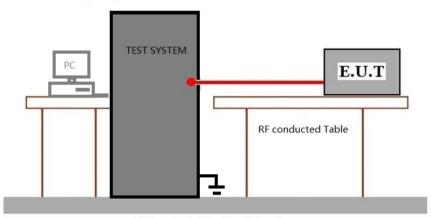
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

7.3.1 E.U.T. Operation

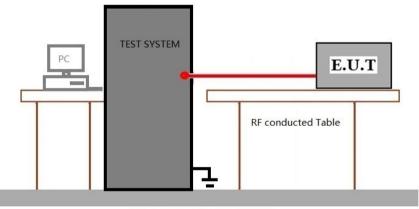
Operating Environment:

Temperature: 24.6 °C Humidity: 57.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

	7.0.2 Test mode bescription				
Pre-scan / Final test	Mode Code	Description			
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.			
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.			

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

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

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

transmission

7.4.1 E.U.T. Operation

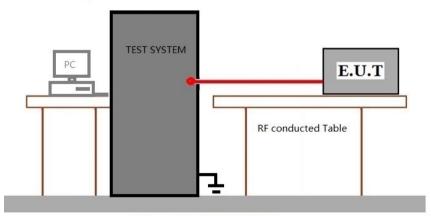
Operating Environment:

Temperature: 24.6 °C Humidity: 57.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Atmospheric Pressure: 1020 mbar Humidity: 57.3 % RH

7.5.2 Test Mode Description

71012 100111		
Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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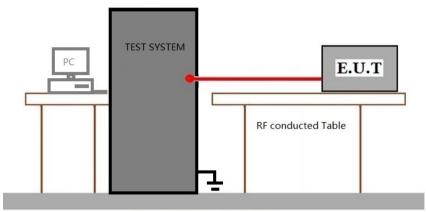
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

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

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Atmospheric Pressure: 1020 mbar Humidity: 57.3 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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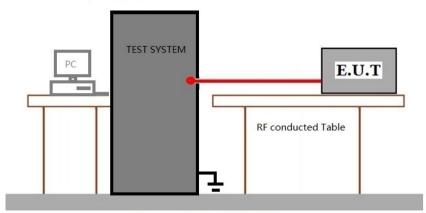
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.8 °C Humidity: 45.7 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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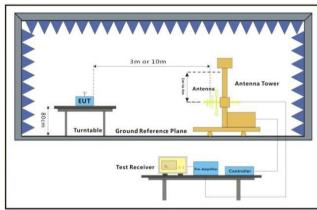
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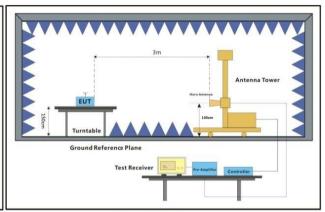


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7.7.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.7.4 Measurement Procedure and Data

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

Remark 1: 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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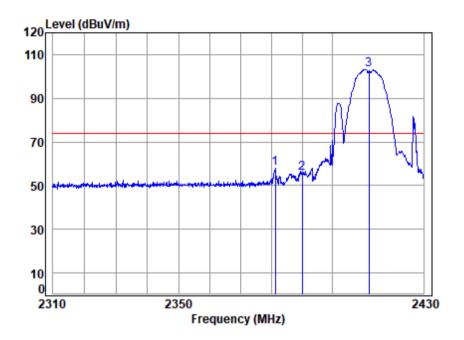


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2381.270	15.80	29.10	32.78	45.61	57.73	74.00	-16.27	peak
2	2390.000	15.81	29.10	32.78	43.70	55.83	74.00	-18.17	peak
3 p	2412.000	15.82	29.05	32.77	91.12	103.22	74.00	29.22	peak



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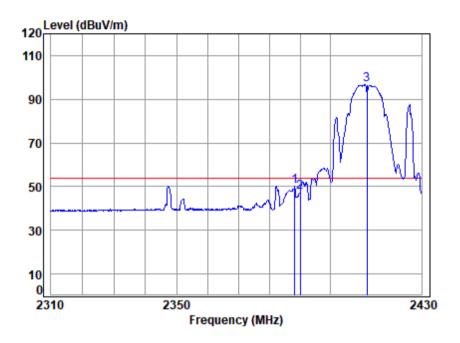


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.274	15.81	29.10	32.78	38.06	50.19	54.00	-3.81	Average
2	2390.000	15.81	29.10	32.78	35.26	47.39	54.00	-6.61	Average
3 a	2412.000	15.82	29.05	32.77	84.59	96.69	54.00	42.69	Average



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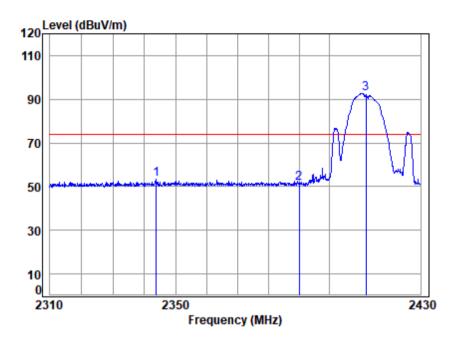


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2412 Band edge

: 2.4G WIFI 11B

	. 2.	+O MII	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2343.821	15.78	29.01	32.80	41.26	53.25	74.00	-20.75	Peak
2	2390.000	15.81	29.10	32.78	39.66	51.79	74.00	-22.21	Peak
	2412 000								



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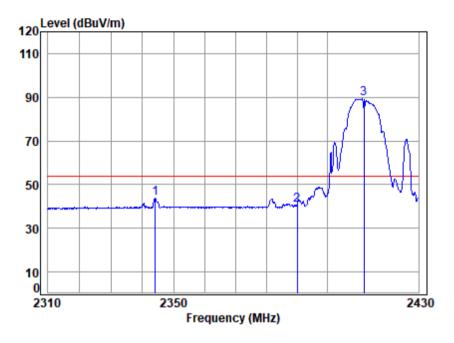


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2412 Band edge

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2344.177	15.78	29.02	32.80	32.02	44.02	54.00	-9.98	Average	
2	2390.000	15.81	29.10	32.78	28.40	40.53	54.00	-13.47	Average	
3	q 2412.000	15.82	29.05	32.77	77.12	89.22	54.00	35.22	Average	



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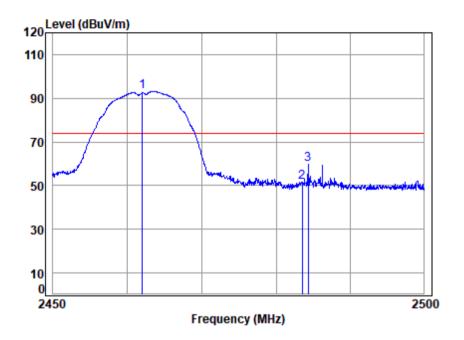


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

Page: 30 of 106

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11B

		+G W11	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	81.19	93.20	74.00	19.20	peak
	2483.500								•
	2/18/1 3/12								•



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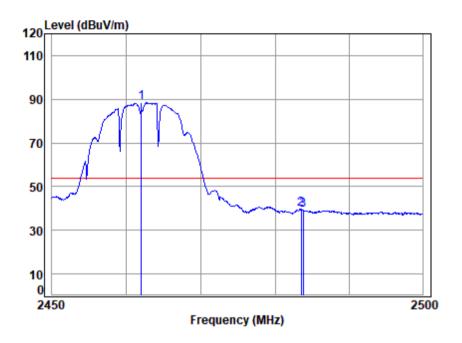


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

Page: 31 of 106

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11B

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	q	2462.000	15.85	28.90	32.74	76.32	88.33	54.00	34.33	Average	
2		2483.500	15.86	28.90	32.73	27.50	39.53	54.00	-14.47	Average	
3		2483.790	15.86	28.90	32.73	27.16	39.19	54.00	-14.81	Average	



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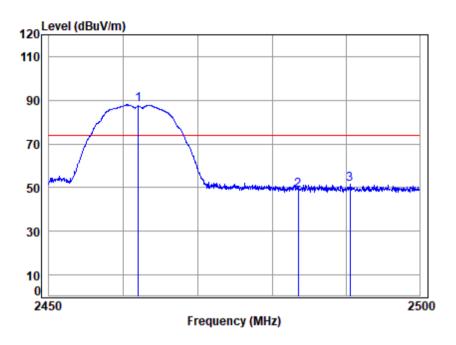
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Report No.: SZCR240900348002

Page: 32 of 106

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11B

	. 2	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	75.84	87.85	74.00	13.85	Peak
2	2483.500	15.86	28.90	32.73	36.96	48.99	74.00	-25.01	Peak
3	2/10/0 573	15 86	28 90	32 73	30 /0	51 //3	7/ 00	_22 57	Dook



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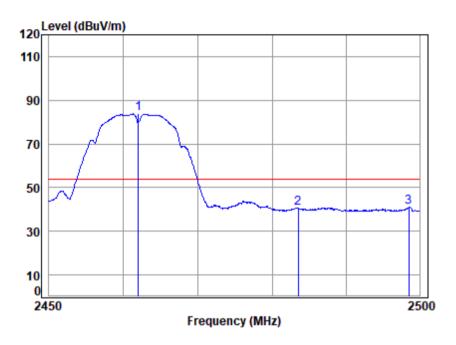
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Report No.: SZCR240900348002

Page: 33 of 106

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11B

	. 2	TO MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q	2462.000	15.85	28.90	32.74	71.79	83.80	54.00	29.80	Average	
	2483.500	15.86	28.90	32.73	28.64	40.67	54.00	-13.33	Average	
	2/108 536	15 27	28 90	32 73	20 23	/11 27	5/ 00	_12 73	Λνοροσο	



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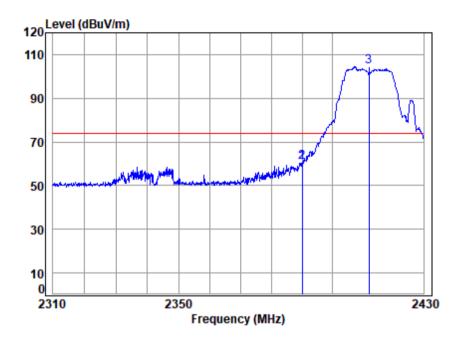


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

Page: 34 of 106

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11G

	. 2.	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	48.76	60.89	74.00	-13.11	peak
	2390.000								•
	n 2/12 000								•



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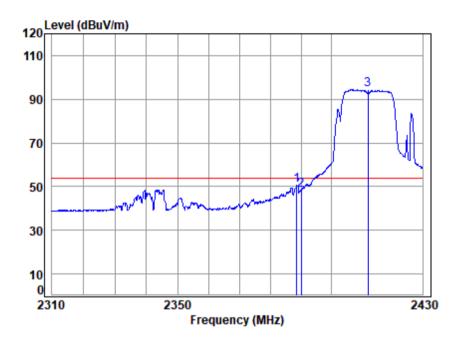


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

Page: 35 of 106

Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2412 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.516	15.81	29.10	32.78	38.29	50.42	54.00	-3.58	Average
2	2390.000	15.81	29.10	32.78	36.20	48.33	54.00	-5.67	Average
3	q 2412.000	15.82	29.05	32.77	82.24	94.34	54.00	40.34	Average



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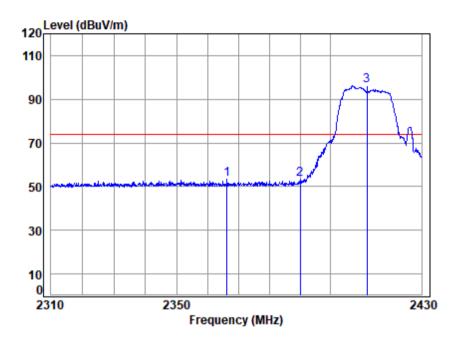


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2412 Band edge

· 2 4G WIFT 11G

. 2.40 WIII 110										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2366.243	15.80	29.10	32.79	41.26	53.37	74.00	-20.63	Peak	
2	2390.000	15.81	29.10	32.78	41.07	53.20	74.00	-20.80	Peak	
3 1	2412 000	15 82	29 05	32 77	84 05	96 15	74 99	22 15	Peak	



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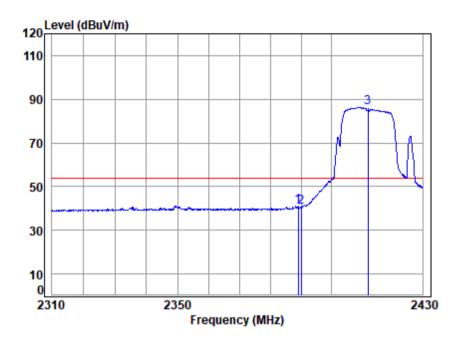


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2412 Band edge

: 2.4G WIFI 11G

	. 2	+O MII	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.000	15.81	29.10	32.78	29.09	41.22	54.00	-12.78	Average
2	2390.000	15.81	29.10	32.78	28.34	40.47	54.00	-13.53	Average
3 0	2412 000	15 82	29 05	32 77	7/1 28	86 38	54 00	32 38	Average



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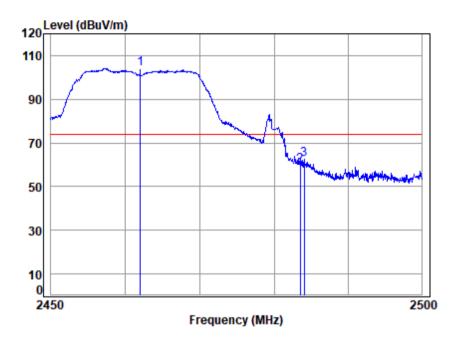


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11G

	. 2.	TO WILL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	l p 2462.000	15.85	28.90	32.74	92.18	104.19	74.00	30.19	peak	
	2483.500								•	
	2/12/1 0/11								•	



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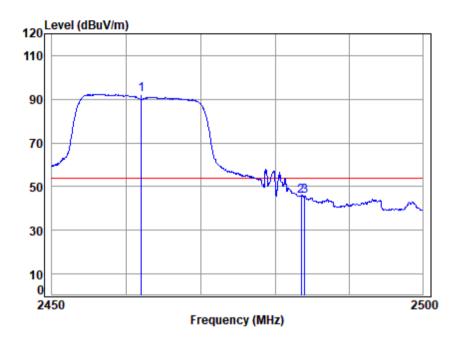


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2462 Band edge

: 2.4G WIFI 11G

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								_
2	2483.500	15.86	28.90	32.73	33.49	45.52	54.00	-8.48	Average
3	2483.990	15.86	28.90	32.73	33.63	45.66	54.00	-8.34	Average



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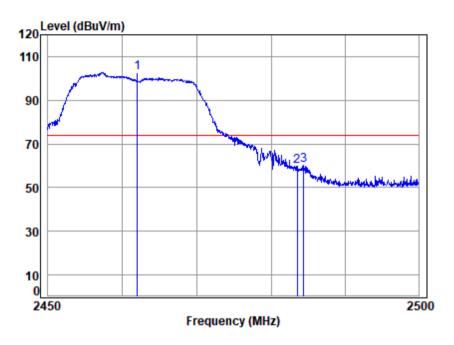
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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11G

	. 2	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
р	2462.000	15.85	28.90	32.74	90.59	102.60	74.00	28.60	Peak
	2483.500	15.86	28.90	32.73	47.68	59.71	74.00	-14.29	Peak
1	2/8/ 392	15 86	28 90	32 73	12 00	60 03	7/ 00	_13 97	Poak



1 2

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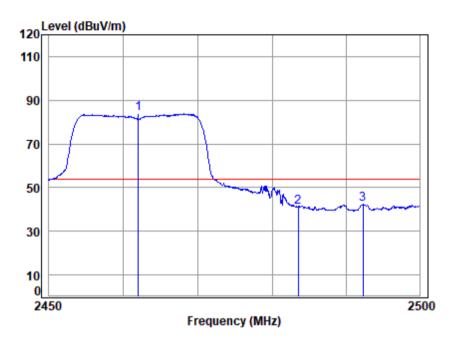
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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11G

. 2.	TO WILL	1 110							
	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
l q 2462.000	15.85	28.90	32.74	71.82	83.83	54.00	29.83	Average	
2483.500	15.86	28.90	32.73	29.18	41.21	54.00	-12.79	Average	
2/192 335								_	



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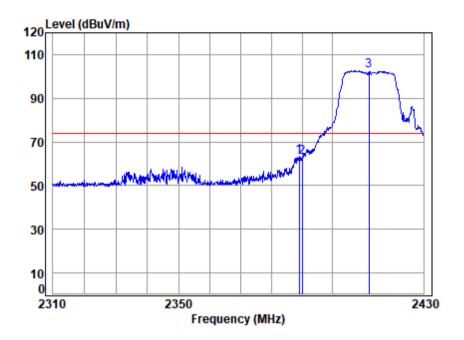


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2412 Band edge

· 2 4G WTET 11N20

. 2	+C MII	1 1111/2	0					
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.000	15.81	29.10	32.78	51.11	63.24	74.00	-10.76	peak
2390.000								•
n 2412 000								•



1 2

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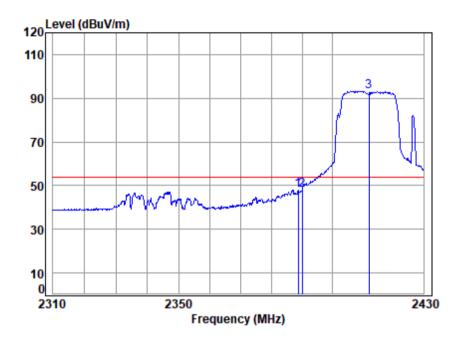


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11N20

	. 2.	TO WILL	1 11112							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2388.758	15.81	29.10	32.78	35.81	47.94	54.00	-6.06	Average	
2	2390.000	15.81	29.10	32.78	35.79	47.92	54.00	-6.08	Average	
3	a 2/12 000	15 92	20 05	22 77	21 21	03 31	54 00	30 31	Λυοροσο	



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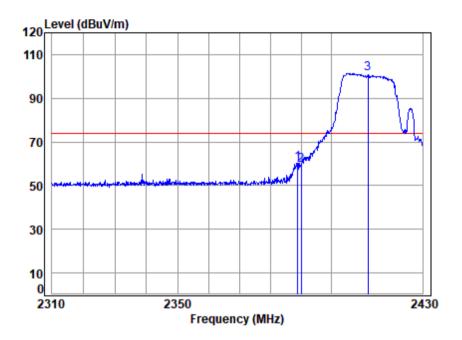


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

: 2412 Band edge Mode

· 2 4G WTET 11N20

	. 2.	+O MII	1 1111/2	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2388.879	15.81	29.10	32.78	48.23	60.36	74.00	-13.64	Peak	
2	2390.000	15.81	29.10	32.78	47.14	59.27	74.00	-14.73	Peak	
3 n	2412 000	15 82	29 05	32 77	89 41	101 51	74 99	27 51	Peak	



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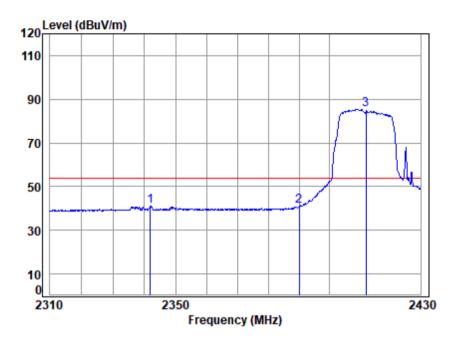


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2412 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2341.922	15.78	28.99	32.81	29.23	41.19	54.00	-12.81	Average
2	2390.000	15.81	29.10	32.78	28.72	40.85	54.00	-13.15	Average
3 q	2412.000	15.82	29.05	32.77	73.44	85.54	54.00	31.54	Average



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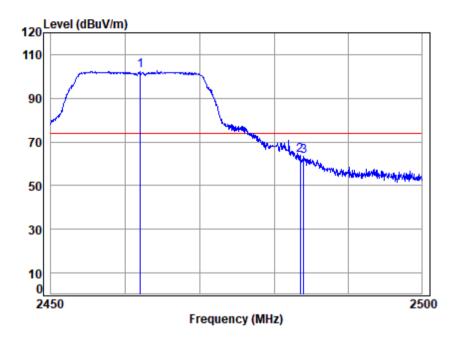


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11N20

. 2.	+G W11	1 11112							
	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p 2462.000	15.85	28.90	32.74	90.70	102.71	74.00	28.71	peak	
2 2483.500	15.86	28.90	32.73	52.00	64.03	74.00	-9.97	peak	
3 2/83 000								-	



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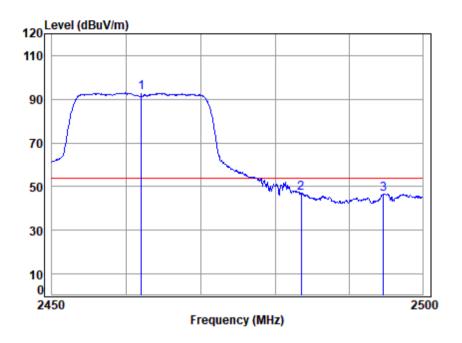


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 (2462.000	15.85	28.90	32.74	80.89	92.90	54.00	38.90	Average
2	2483.500	15.86	28.90	32.73	34.95	46.98	54.00	-7.02	Average
3	2494.702	15.87	28.90	32.73	34.70	46.74	54.00	-7.26	Average



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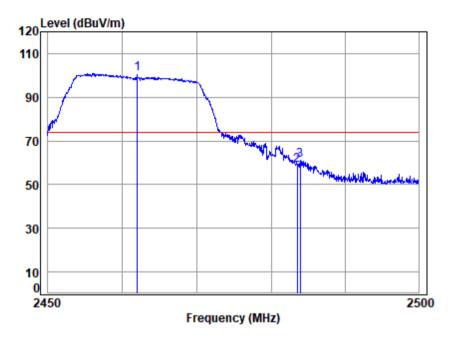


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

· 2 4G WTET 11N20

	. 2	+O MII	1 1111/2	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2462.000	15.85	28.90	32.74	88.67	100.68	74.00	26.68	Peak	
2	2483.500	15.86	28.90	32.73	46.98	59.01	74.00	-14.99	Peak	
3	2483 940	15 86	28 90	32 73	49 33	61 36	74 99	-12 64	Peak	



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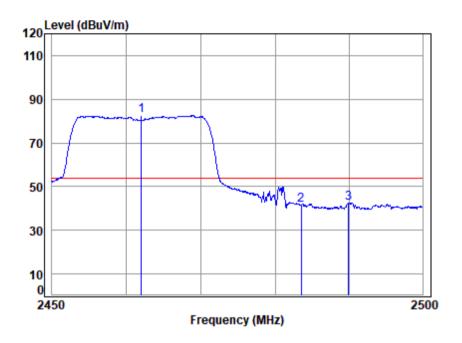


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 Band edge

: 2.4G WIFI 11N20

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 q	2462.000	15.85	28.90	32.74	70.63	82.64	54.00	28.64	Average	
2	2483.500	15.86	28.90	32.73	29.41	41.44	54.00	-12.56	Average	
3	2489.919	15.86	28.90	32.73	30.61	42.64	54.00	-11.36	Average	



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7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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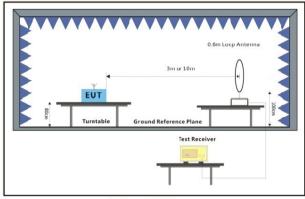


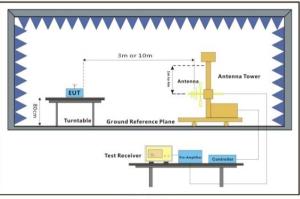
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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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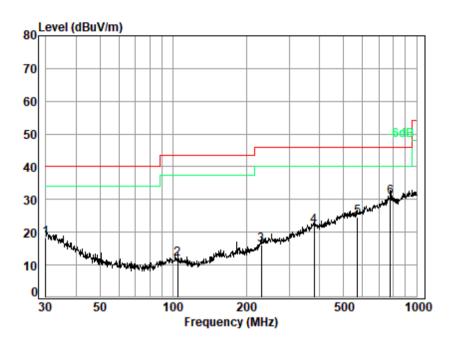


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Test Mode: 03; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03480AT

Test Mode: 03

	Ant		Cable Preamp		Read		Limit	0ver		
	Freq	Factor	tor Loss Factor		Level	Level Level		Limit	Remark	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	30.00	21.20	0.67	27.79	24.19	18.27	40.00	-21.73	QP	
2	104.54	12.21	1.25	27.57	25.88	11.77	43.50	-31.73	QP	
3	230.10	16.46	1.91	27.04	24.93	16.26	46.00	-29.74	QP	
4	379.91	20.91	2.51	27.07	25.45	21.80	46.00	-24.20	QP	
5	572.61	23.73	3.16	27.86	25.62	24.65	46.00	-21.35	QP	
6 a									_	



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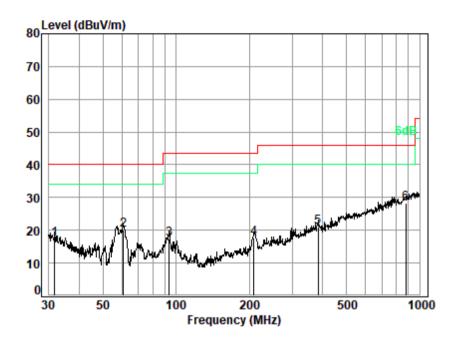
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Test Mode: 03; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03480AT Test Mode: 03

	Freq	Ant Factor		Preamp Factor					Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.73	20.39	0.69	27.79	24.18	17.47	40.00	-22.53	QP
2	60.70	11.40	0.96	27.70	35.30	19.96	40.00	-20.04	QP
3	93.44	12.01	1.18	27.61	31.89	17.47	43.50	-26.03	QP
4	208.58	14.71	1.81	27.13	28.17	17.56	43.50	-25.94	QP
5	383.93	20.90	2.53	27.09	24.68	21.02	46.00	-24.98	QP
6 q	878.32	27.70	4.07	26.92	23.53	28.38	46.00	-17.62	QP



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7.9 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

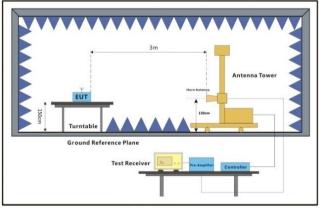
Operating Environment:

Temperature: 22.7 °C Humidity: 45.9 % RH Atmospheric Pressure: 1020 mbar

7 9 2 Test Mode Description

7.3.2 Test Mode Description									
Pre-scan / Final test	Mode Code	Description							
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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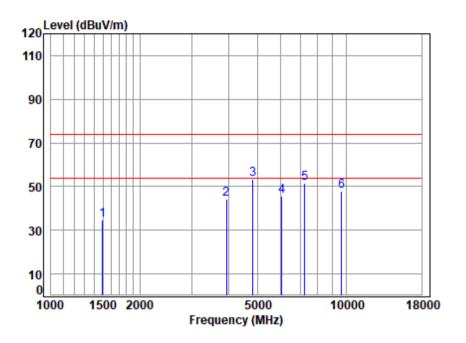


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								•		
1		1494.455	4.57	26.64	61.49	65.12	34.84	74.00	-39.16	peak
2		3935.493	8.36	33.59	61.40	63.56	44.11	74.00	-29.89	peak
3	р	4824.000	8.01	34.40	61.02	71.97	53.36	74.00	-20.64	peak
4		6053.894	9.48	35.01	60.60	61.57	45.46	74.00	-28.54	peak
5		7236.000	9.29	35.70	60.39	67.16	51.76	74.00	-22.24	peak
6		9648.000	11.38	37.50	61.27	60.18	47.79	74.00	-26.21	peak



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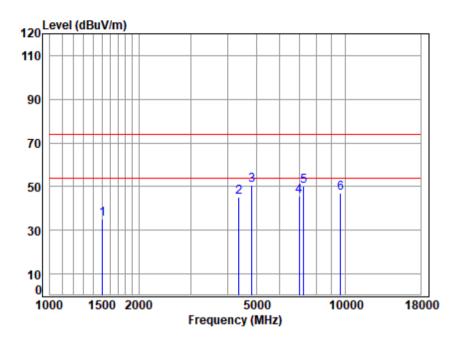


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1507.470	4.59	26.83	61.49	65.20	35.13	74.00	-38.87	peak
2		4367.058	8.04	34.54	61.21	64.00	45.37	74.00	-28.63	peak
3	р	4824.000	8.01	34.40	61.02	69.32	50.71	74.00	-23.29	peak
4		6995.172	9.53	35.71	60.43	60.79	45.60	74.00	-28.40	peak
5		7236.000	9.29	35.70	60.39	65.71	50.31	74.00	-23.69	peak
6		9648.000	11.38	37.50	61.27	59.32	46.93	74.00	-27.07	peak



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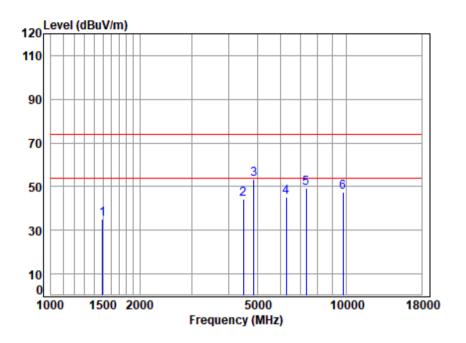


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1494.455	4.57	26.64	61.49	65.54	35.26	74.00	-38.74	peak
2		4482.150	7.88	33.81	61.16	63.78	44.31	74.00	-29.69	peak
3	р	4874.000	8.03	34.60	61.00	71.91	53.54	74.00	-20.46	peak
4		6267.553	9.31	34.94	60.56	61.68	45.37	74.00	-28.63	peak
5		7311.000	9.21	35.70	60.38	64.86	49.39	74.00	-24.61	peak
6		9748.000	11.32	37.40	61.32	60.10	47.50	74.00	-26.50	peak



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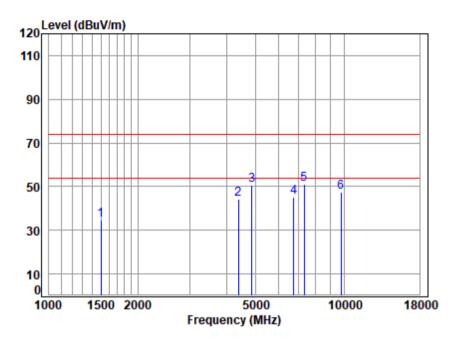


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.49	65.01	34.86	74.00	-39.14	peak
2	4379.699	8.02	34.64	61.21	62.86	44.31	74.00	-29.69	peak
3	4874.000	8.03	34.60	61.00	69.21	50.84	74.00	-23.16	peak
4	6756.708	9.34	35.21	60.47	61.26	45.34	74.00	-28.66	peak
5	p 7311.000	9.21	35.70	60.38	66.38	50.91	74.00	-23.09	peak
6	9748.000	11.32	37.40	61.32	59.90	47.30	74.00	-26.70	peak



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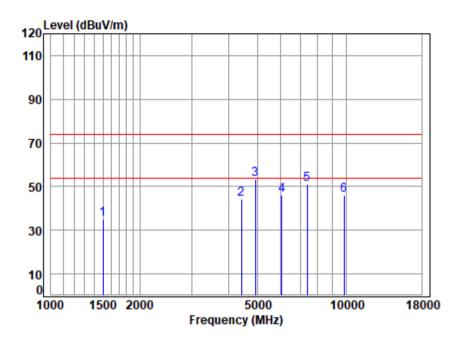


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2462 TX RSE

: 2.4G WIFT 11B

	. 2	+CI MILI	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.49	65.41	35.26	74.00	-38.74	peak
2	4417.841	7.97	34.59	61.19	62.96	44.33	74.00	-29.67	peak
3	p 4924.000	8.05	34.65	60.99	71.51	53.22	74.00	-20.78	peak
4	6053.894	9.48	35.01	60.60	62.34	46.23	74.00	-27.77	peak
5	7386.000	9.14	35.77	60.36	66.63	51.18	74.00	-22.82	peak
6	9848.000	11.27	37.20	61.38	58.97	46.06	74.00	-27.94	peak



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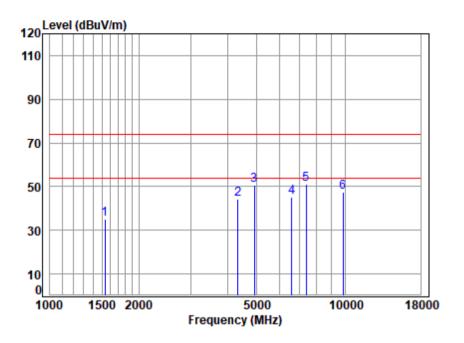


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

Page: 61 of 106

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								-		
1		1533.841	4.65	26.94	61.50	65.06	35.15	74.00	-38.85	peak
2		4329.354	8.09	34.23	61.23	63.23	44.32	74.00	-29.68	peak
3		4924.000	8.05	34.65	60.99	68.82	50.53	74.00	-23.47	peak
4		6583.209	9.21	35.37	60.50	61.05	45.13	74.00	-28.87	peak
5	р	7386.000	9.14	35.77	60.36	66.35	50.90	74.00	-23.10	peak
6		9848.000	11.27	37.20	61.38	60.38	47.47	74.00	-26.53	peak



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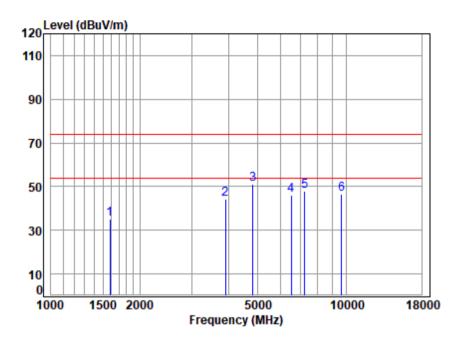


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	4.75	26.87	61.51	65.10	35.21	74.00	-38.79	peak
2	3901.516	8.25	33.79	61.41	63.55	44.18	74.00	-29.82	peak
3	p 4824.000	8.01	34.40	61.02	69.84	51.23	74.00	-22.77	peak
4	6507.536	9.15	35.58	60.51	62.09	46.31	74.00	-27.69	peak
5	7236.000	9.29	35.70	60.39	63.24	47.84	74.00	-26.16	peak
6	9648.000	11.38	37.50	61.27	59.15	46.76	74.00	-27.24	peak



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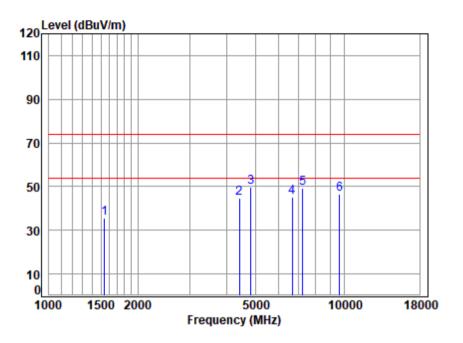


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								-		
1		1542.733	4.66	26.97	61.50	65.25	35.38	74.00	-38.62	peak
2		4417.841	7.97	34.59	61.19	63.28	44.65	74.00	-29.35	peak
3	р	4824.000	8.01	34.40	61.02	68.56	49.95	74.00	-24.05	peak
4		6659.763	9.27	35.20	60.49	60.97	44.95	74.00	-29.05	peak
5		7236.000	9.29	35.70	60.39	64.90	49.50	74.00	-24.50	peak
6		9648.000	11.38	37.50	61.27	58.80	46.41	74.00	-27.59	peak



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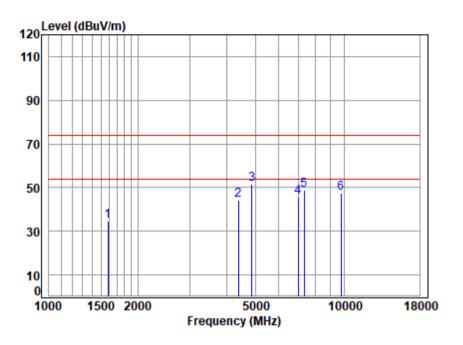


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.97	5 4.76	26.85	61.51	64.76	34.86	74.00	-39.14	peak
2	4392.37	8.00	34.74	61.20	62.92	44.46	74.00	-29.54	peak
3	p 4874.00	0 8.03	34.60	61.00	70.06	51.69	74.00	-22.31	peak
4	6995.17	2 9.53	35.71	60.43	60.80	45.61	74.00	-28.39	peak
5	7311.00	0 9.21	35.70	60.38	64.30	48.83	74.00	-25.17	peak
6	9748.00	0 11.32	37.40	61.32	59.93	47.33	74.00	-26.67	peak



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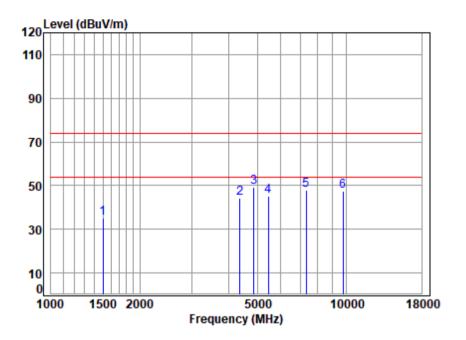


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

	. 2	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.49	65.29	35.14	74.00	-38.86	peak
2	4367.058	8.04	34.54	61.21	63.05	44.42	74.00	-29.58	peak
3	p 4874.000	8.03	34.60	61.00	67.60	49.23	74.00	-24.77	peak
4	5455.631	9.20	34.68	60.79	62.02	45.11	74.00	-28.89	peak
5	7311.000	9.21	35.70	60.38	63.55	48.08	74.00	-25.92	peak
6	9748.000	11.32	37.40	61.32	60.04	47.44	74.00	-26.56	peak



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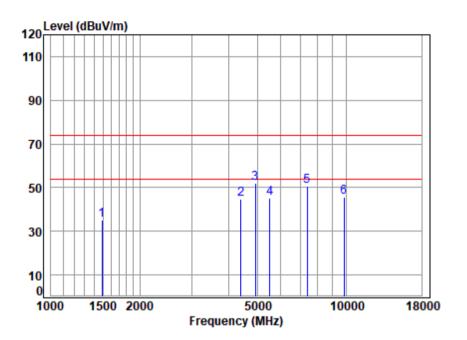


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

			TO MILI	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1490.142	4.57	26.52	61.48	65.73	35.34	74.00	-38.66	peak
2		4405.090	7.99	34.74	61.20	63.13	44.66	74.00	-29.34	peak
3	р	4924.000	8.05	34.65	60.99	70.49	52.20	74.00	-21.80	peak
4		5519.072	9.31	34.58	60.77	61.84	44.96	74.00	-29.04	peak
5		7386.000	9.14	35.77	60.36	66.02	50.57	74.00	-23.43	peak
6		9848.000	11.27	37.20	61.38	58.60	45.69	74.00	-28.31	peak



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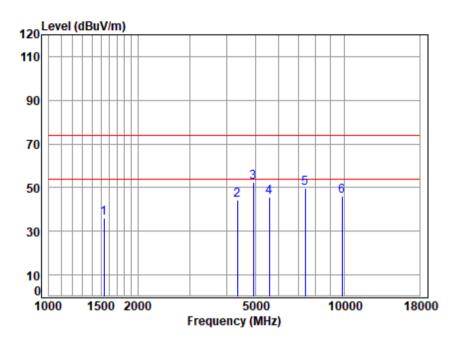


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							-		
1	1533.841	4.65	26.94	61.50	65.96	36.05	74.00	-37.95	peak
2	4354.454	8.06	34.44	61.22	62.81	44.09	74.00	-29.91	peak
3 p	4924.000	8.05	34.65	60.99	70.64	52.35	74.00	-21.65	peak
4	5583.251	9.34	34.70	60.75	62.53	45.82	74.00	-28.18	peak
5	7386.000	9.14	35.77	60.36	64.96	49.51	74.00	-24.49	peak
6	9848.000	11.27	37.20	61.38	58.91	46.00	74.00	-28.00	peak



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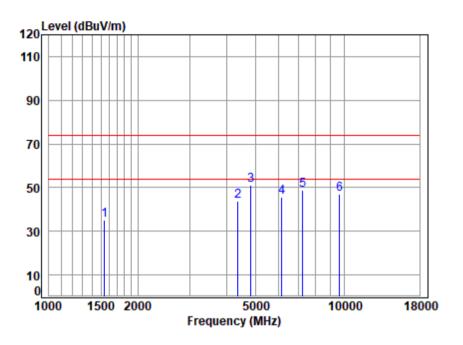


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.66	26.97	61.50	65.15	35.28	74.00	-38.72	peak
2	4367.058	8.04	34.54	61.21	62.50	43.87	74.00	-30.13	peak
3	p 4824.000	8.01	34.40	61.02	69.67	51.06	74.00	-22.94	peak
4	6142.019	9.41	34.93	60.58	61.71	45.47	74.00	-28.53	peak
5	7236.000	9.29	35.70	60.39	64.29	48.89	74.00	-25.11	peak
6	9648.000	11.38	37.50	61.27	59.55	47.16	74.00	-26.84	peak



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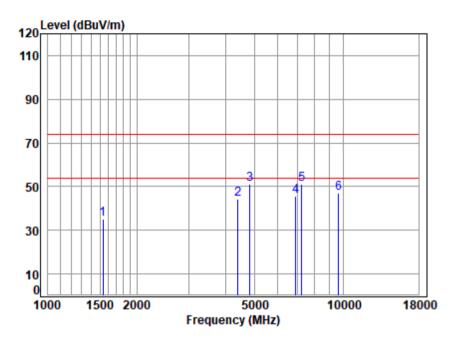


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1538.281	4.65	26.95	61.50	64.93	35.03	74.00	-38.97	peak
2		4405.090	7.99	34.74	61.20	62.77	44.30	74.00	-29.70	peak
3		4824.000	8.01	34.40	61.02	69.53	50.92	74.00	-23.08	peak
4		6894.806	9.45	35.59	60.45	60.83	45.42	74.00	-28.58	peak
5	р	7236.000	9.29	35.70	60.39	66.58	51.18	74.00	-22.82	peak
6		9648.000	11.38	37.50	61.27	59.39	47.00	74.00	-27.00	peak



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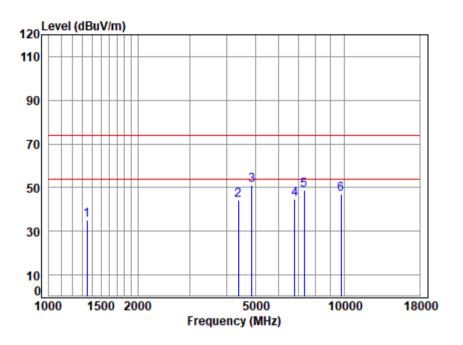


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 03480AT Job No

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1346.769	4.56	24.52	61.44	67.51	35.15	74.00	-38.85	peak
2		4392.376	8.00	34.74	61.20	62.51	44.05	74.00	-29.95	peak
3	р	4874.000	8.03	34.60	61.00	69.59	51.22	74.00	-22.78	peak
4		6795.879	9.37	35.29	60.46	60.73	44.93	74.00	-29.07	peak
5		7311.000	9.21	35.70	60.38	64.35	48.88	74.00	-25.12	peak
6		9748.000	11.32	37.40	61.32	59.71	47.11	74.00	-26.89	peak



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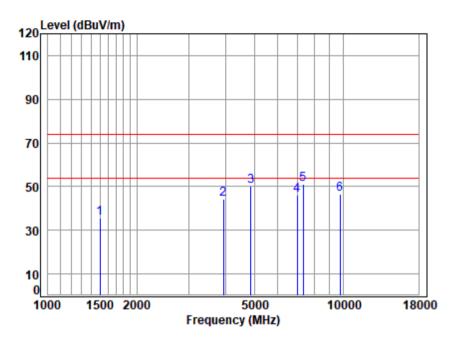


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Report No.: SZCR240900348002

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 03480AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.49	65.73	35.63	74.00	-38.37	peak
2	3935.493	8.36	33.59	61.40	63.78	44.33	74.00	-29.67	peak
3	4874.000	8.03	34.60	61.00	68.47	50.10	74.00	-23.90	peak
4	6995.172	9.53	35.71	60.43	61.16	45.97	74.00	-28.03	peak
5	p 7311.000	9.21	35.70	60.38	66.69	51.22	74.00	-22.78	peak
6	9748.000	11.32	37.40	61.32	59.31	46.71	74.00	-27.29	peak



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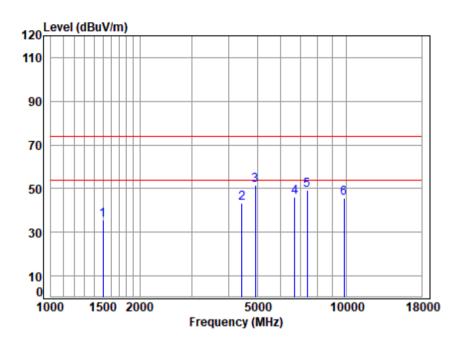


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03480AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1498.781	4.57	26.77	61.49	65.59	35.44	74.00	-38.56	peak
2		4443.453	7.94	34.28	61.18	62.40	43.44	74.00	-30.56	peak
3	р	4924.000	8.05	34.65	60.99	69.97	51.68	74.00	-22.32	peak
4		6698.373	9.30	35.20	60.48	61.84	45.86	74.00	-28.14	peak
5		7386.000	9.14	35.77	60.36	64.91	49.46	74.00	-24.54	peak
6		9848.000	11.27	37.20	61.38	58.40	45.49	74.00	-28.51	peak



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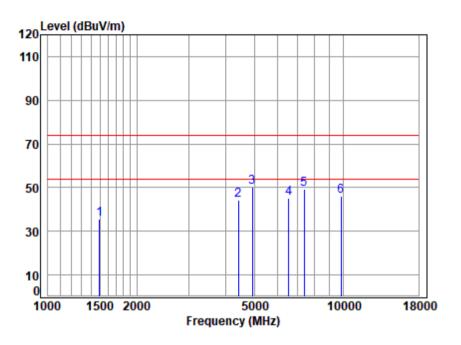


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03480AT Job No

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	. 2110 1121 221120									
			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		1494.455	4.57	26.64	61.49	65.78	35.50	74.00	-38.50	peak
2		4417.841	7.97	34.59	61.19	62.95	44.32	74.00	-29.68	peak
3	р	4924.000	8.05	34.65	60.99	68.38	50.09	74.00	-23.91	peak
4		6545.263	9.18	35.51	60.51	61.16	45.34	74.00	-28.66	peak
5		7386.000	9.14	35.77	60.36	64.83	49.38	74.00	-24.62	peak
6		9848.000	11.27	37.20	61.38	59.22	46.31	74.00	-27.69	peak



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8 **Test Setup Photo**

Please Refer to external and internal photos for details for SZCR2409003480AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2409003480AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
	SISO	2412	8.384	8.420	99.57	0.02	0.04	
802.11b		2437	8.384	8.420	99.57	0.02	0.04	
		2462	8.384	8.420	99.57	0.02	0.04	
	SISO	2412	1.393	1.453	95.87	0.18	1.82	
802.11g		2437	1.398	1.453	96.21	0.17	1.83	
		2462	1.393	1.435	97.07	0.13	0.64	
000 44		2412	1.301	1.352	96.23	0.17	1.31	
802.11n (HT20)	SISO	2437	1.301	1.352	96.23	0.17	1.31	
(11120)		2462	1.300	1.352	96.15	0.17	1.31	



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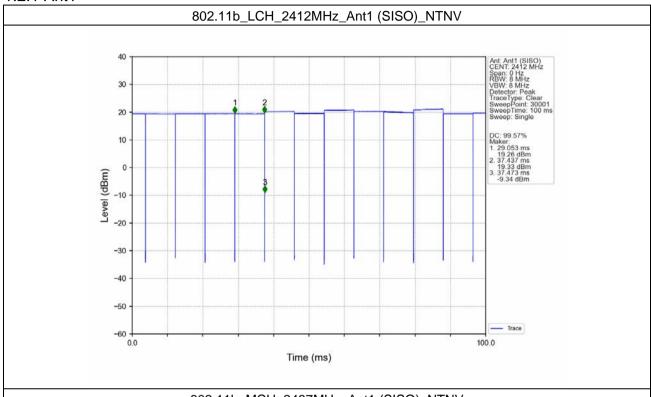
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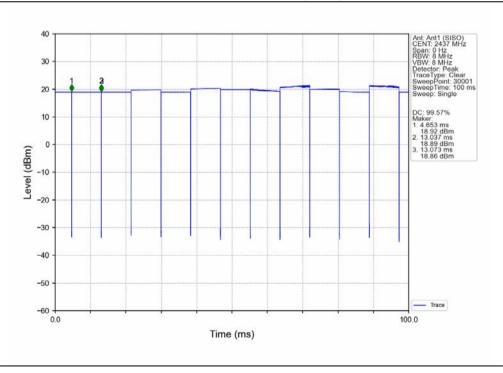
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1.2 Test Graph

1.2.1 Ant1



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV





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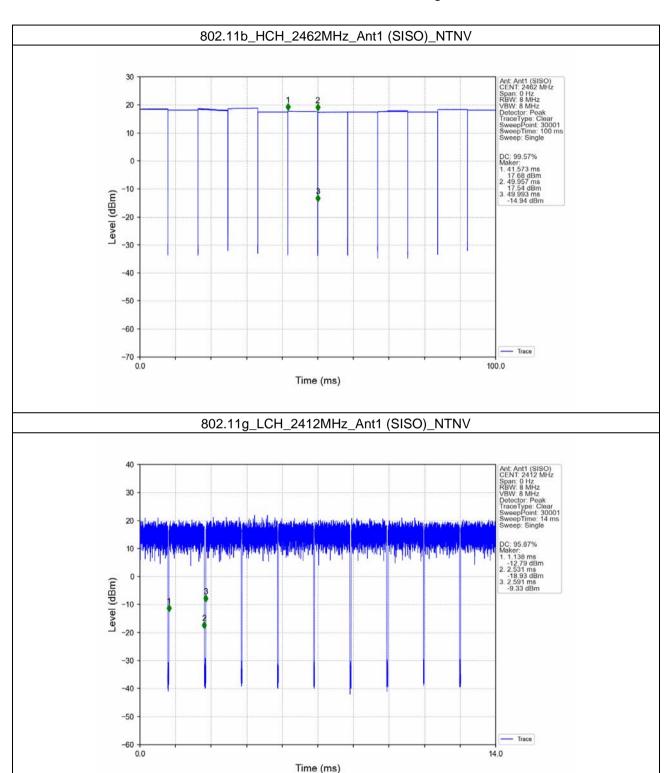
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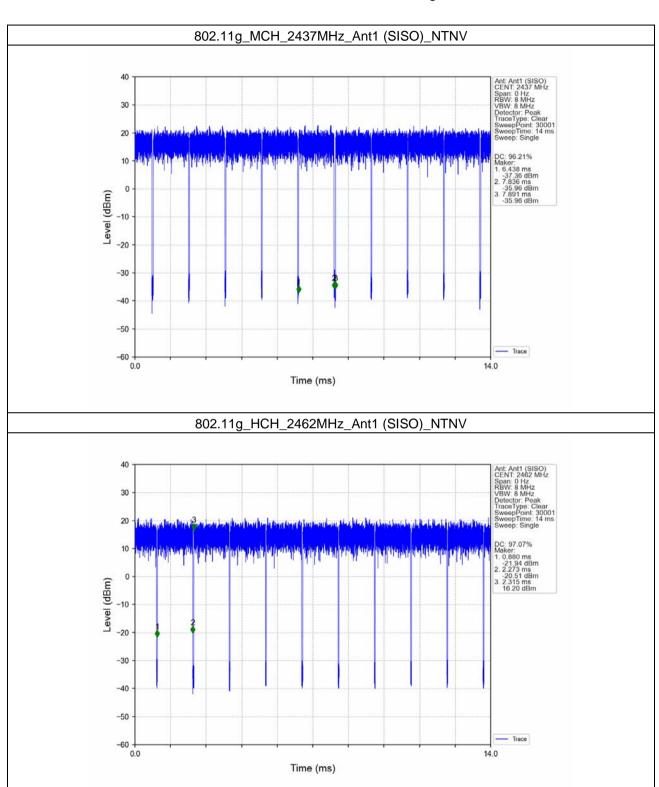
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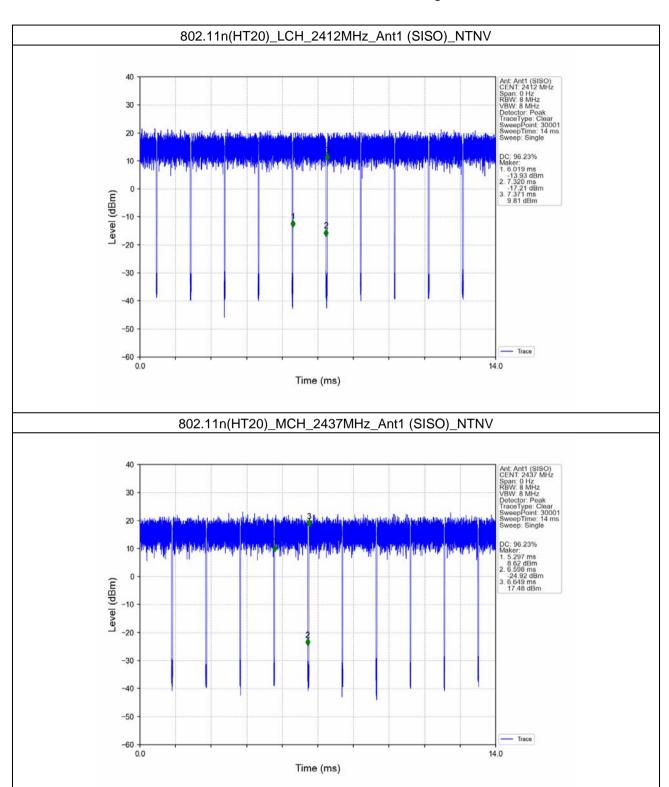
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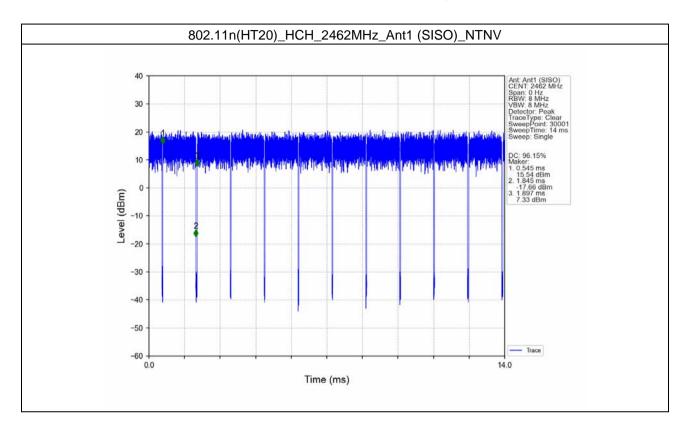
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2. Bandwidth

2.1 Test Result

2.1.1 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandv	6dB Bandwidth (MHz)		
Mode			ANI	Result	Limit	Verdict	
		2412	1	9.134	>=0.5	Pass	
802.11b	SISO	2437	1	9.142	>=0.5	Pass	
		2462	1	9.097	>=0.5	Pass	
		2412	1	16.392	>=0.5 >=0.5 >=0.5	Pass	
802.11g	SISO	2437	1	16.416		Pass	
		2462	1	16.401		Pass	
000 44		2412	1	17.552	>=0.5	Pass	
802.11n (HT20)	SISO	2437	1	17.614	>=0.5	Pass	
(11120)		2462	1	17.348	>=0.5	Pass	



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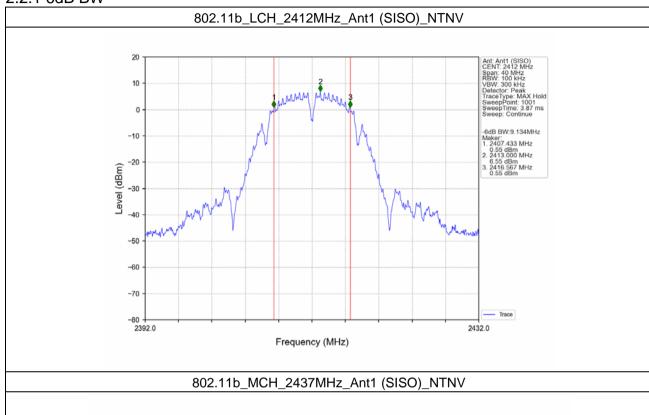


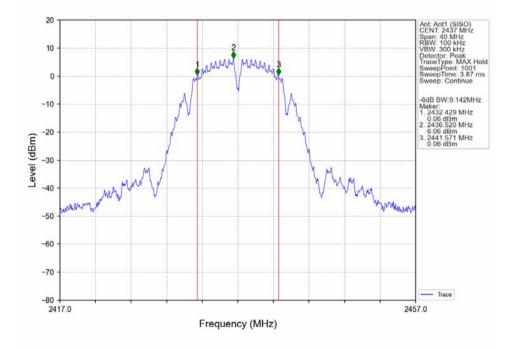
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2.2 Test Graph 2.2.1 6dB BW







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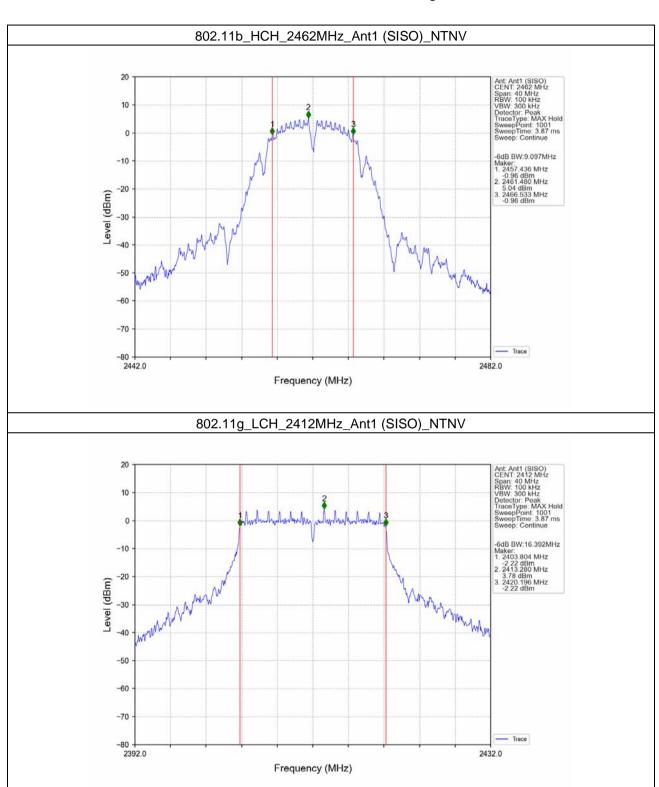
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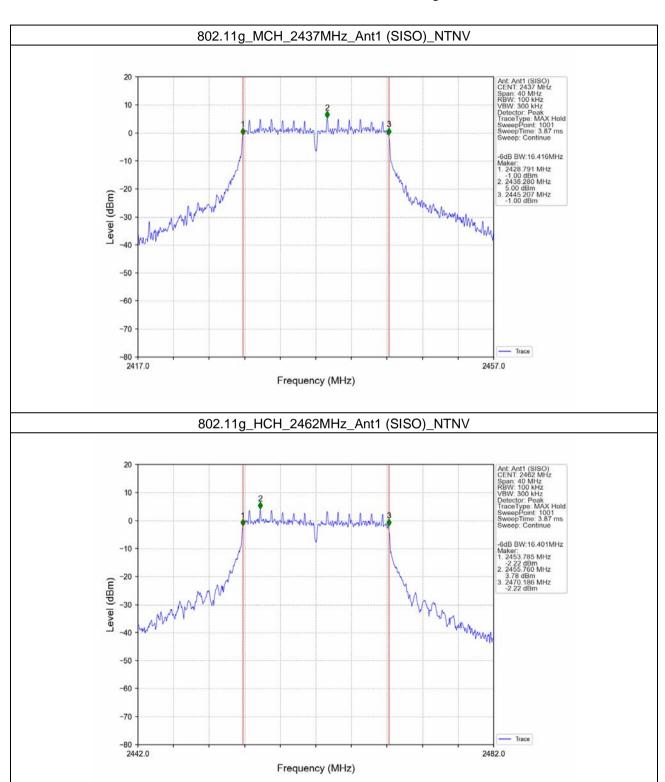
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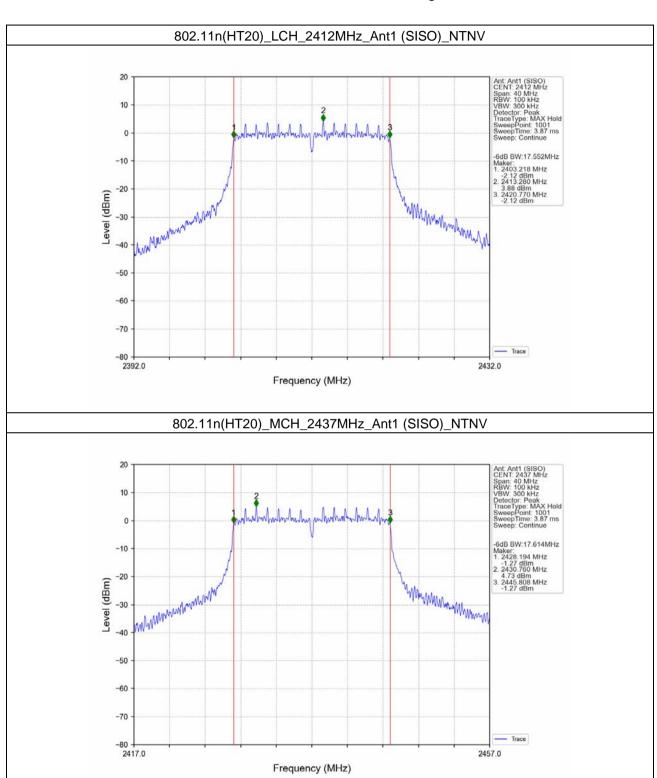
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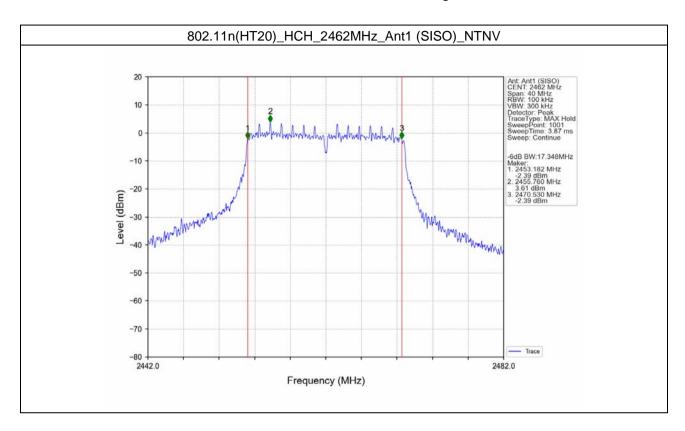
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Co (dE	Verdict	
	Type	(MHz) ANT1 Limit			
		2412	14.90	<=30	Pass
802.11b	SISO	2437	14.77	<=30	Pass
		2462	14.11	<=30	Pass
		2412	15.13	<=30	Pass
802.11g	SISO	2437	15.34	<=30	Pass
		2462	14.63	<=30	Pass
		2412	14.84	<=30	Pass
802.11n (HT20)	SISO	2437	14.88	<=30	Pass
(11120)		2462	14.47	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency	Maximum PS	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
	SISO	2412	-10.03	<=8	Pass
802.11b		2437	2.66	<=8	Pass
		2462	3.02	<=8	Pass
	SISO	2412	-11.50	<=8	Pass
802.11g		2437	-11.85	<=8	Pass
		2462	-12.46	<=8	Pass
000 44	SISO	2412	-12.48	<=8	Pass
802.11n (HT20)		2437	-12.54	<=8	Pass
(11120)		2462	-12.42	<=8	Pass



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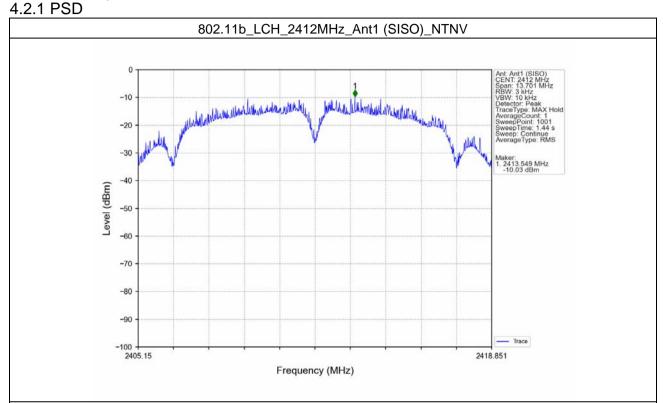
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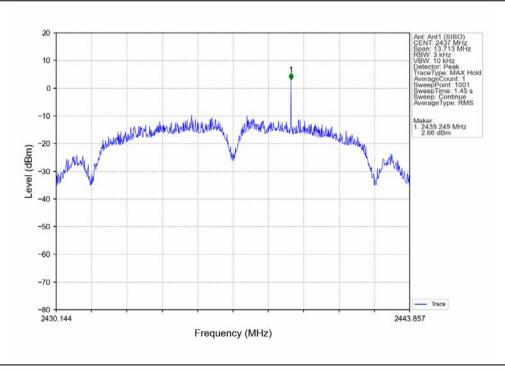
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4.2 Test Graph









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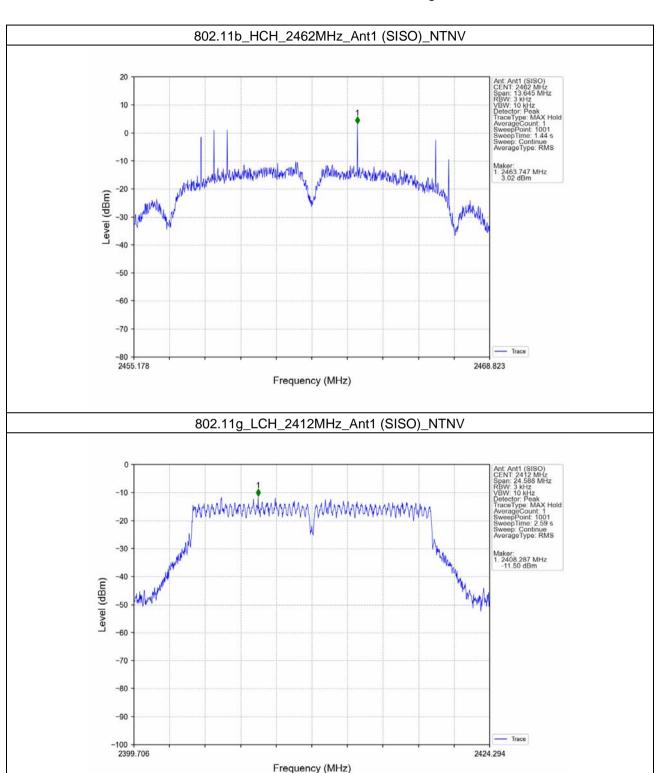
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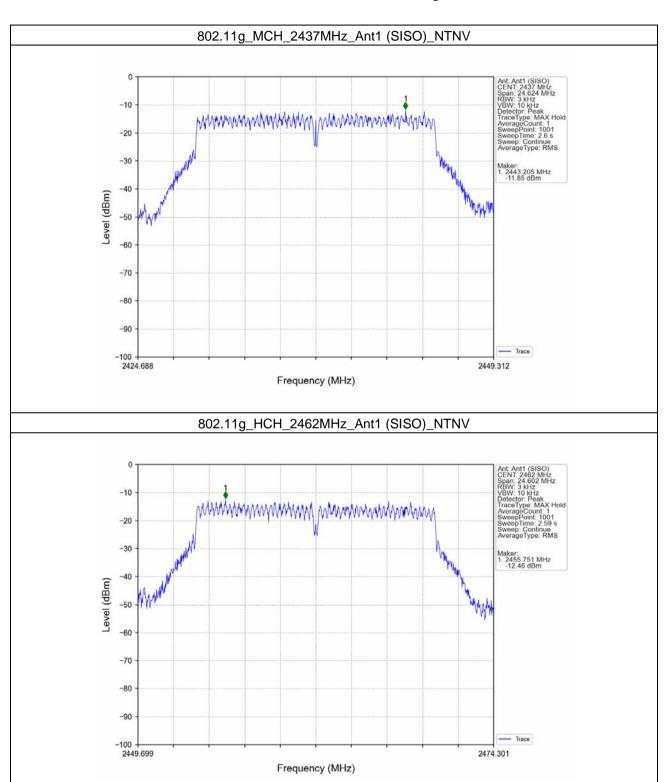
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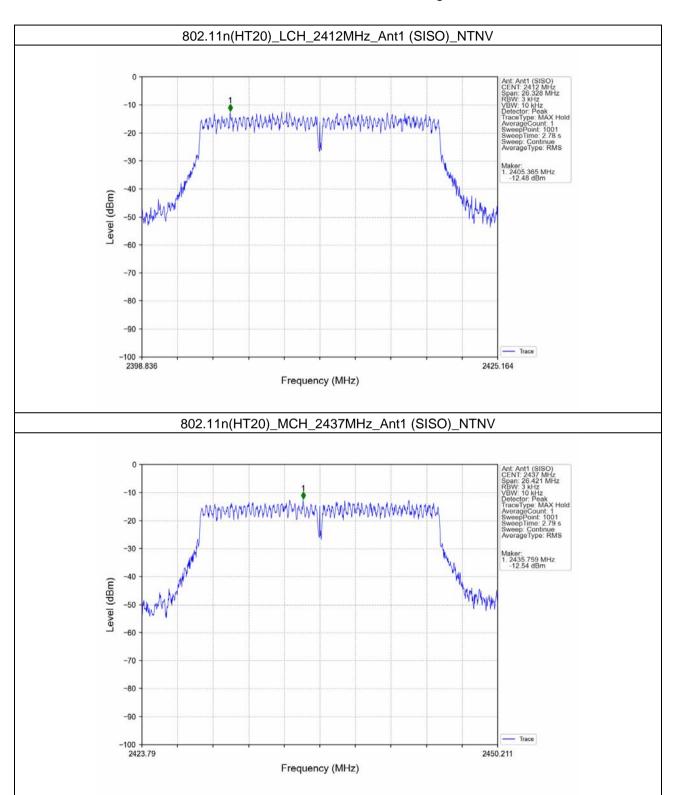
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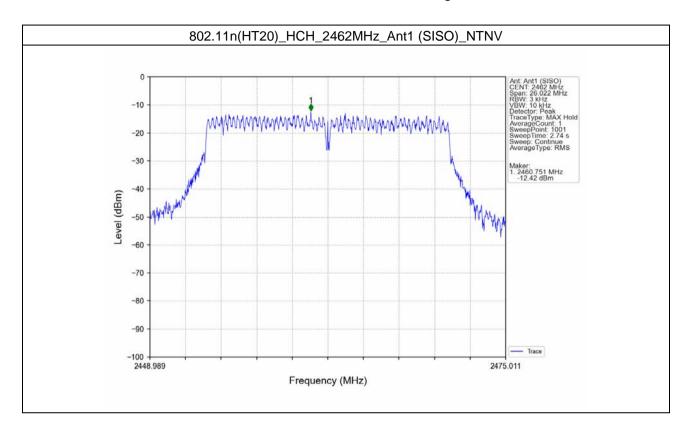
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	5.43
802.11b	SISO	2437	1	5.38
		2462	1	4.99
		2412	1	3.78
802.11g	SISO	2437	1	4.07
		2462	1	4.59
		2412	1	3.92
802.11n (HT20)	SISO	2437	1	3.70
(11120)		2462	1	3.58

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
	SISO	2412	1	5.43	-24.57	Pass
802.11b		2437	1	5.43	-24.57	Pass
		2462	1	5.43	-24.57	Pass
	SISO	2412	1	4.59	-25.41	Pass
802.11g		2437	1	4.59	-25.41	Pass
		2462	1	4.59	-25.41	Pass
202.11		2412	1 3.92	-26.08	Pass	
802.11n (HT20)	SISO	2437	1	3.92	-26.08	Pass
(11120)		2462	1	3.92	-26.08	Pass



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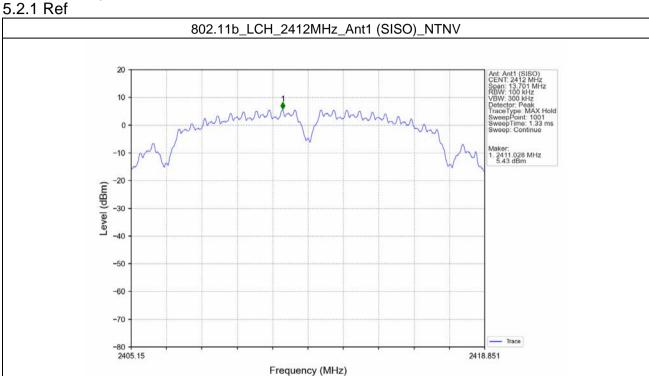


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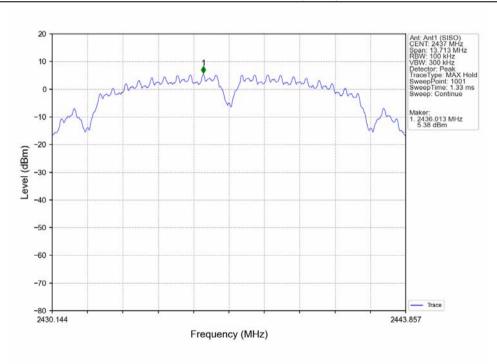
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5.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV





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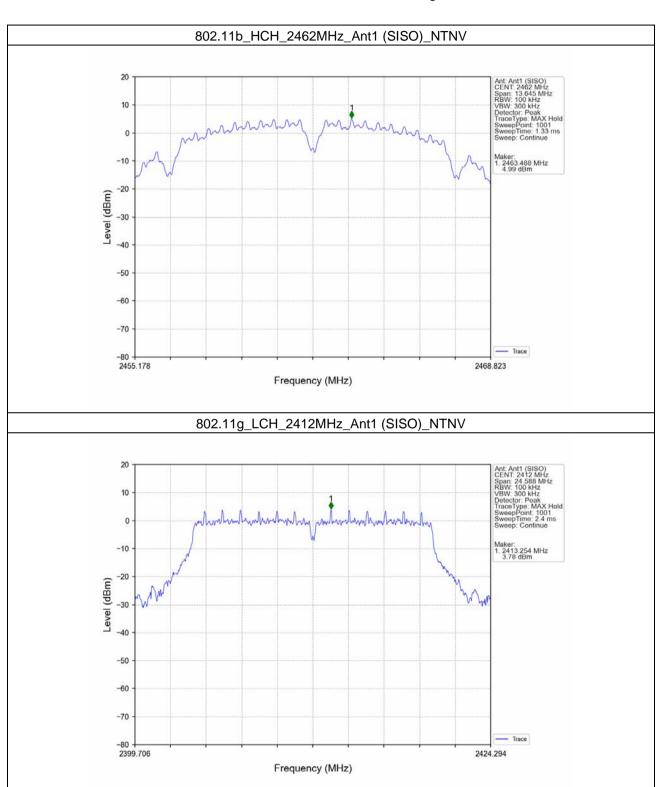
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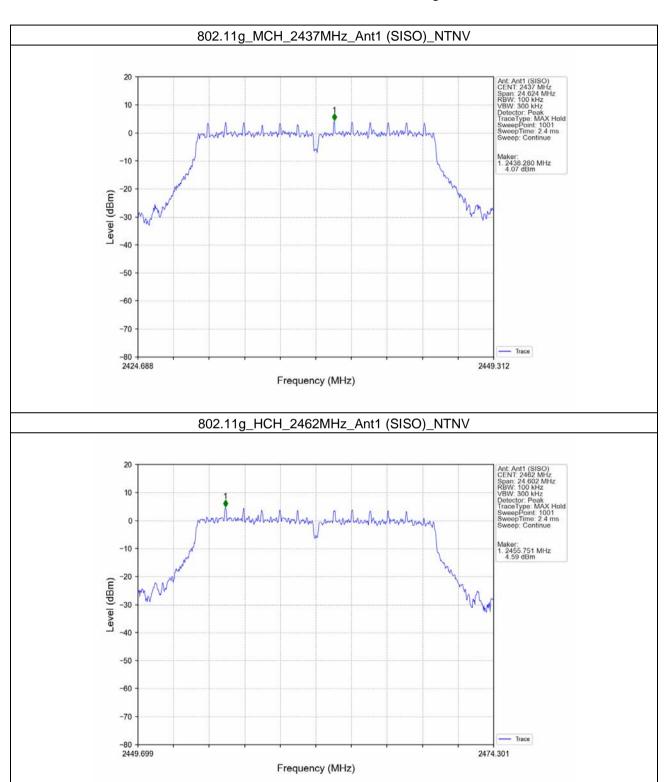
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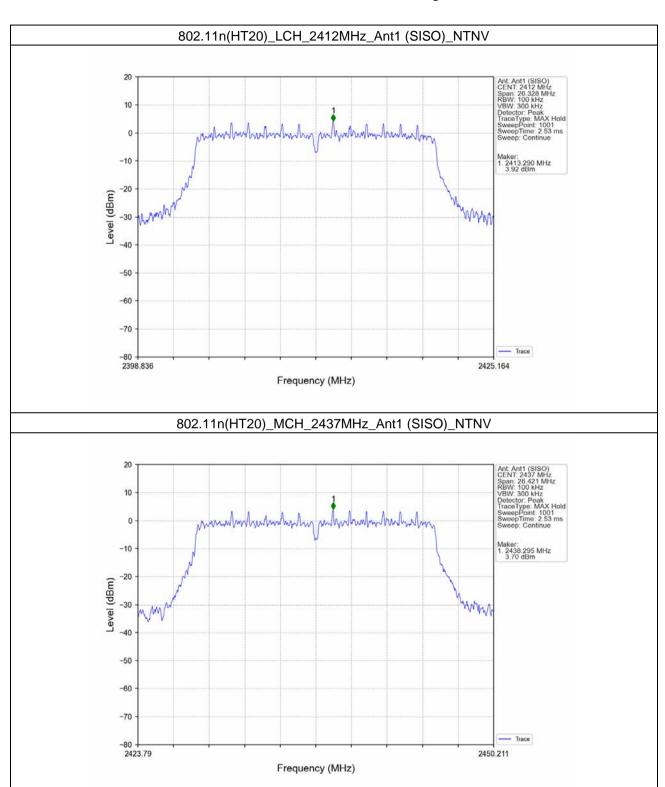
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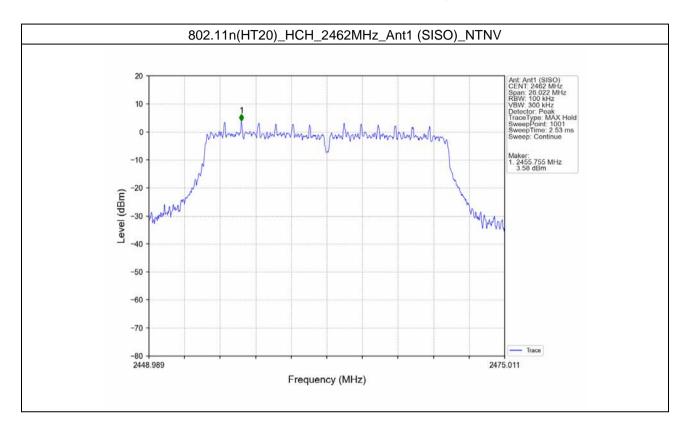
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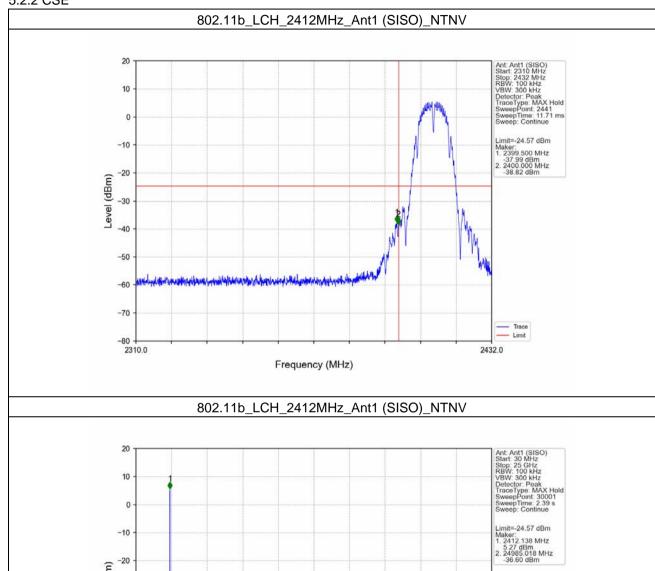
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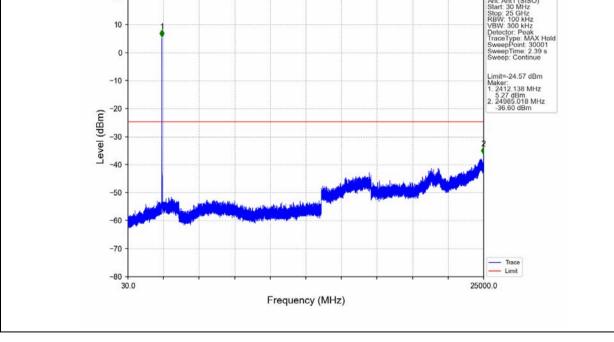


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5.2.2 CSE







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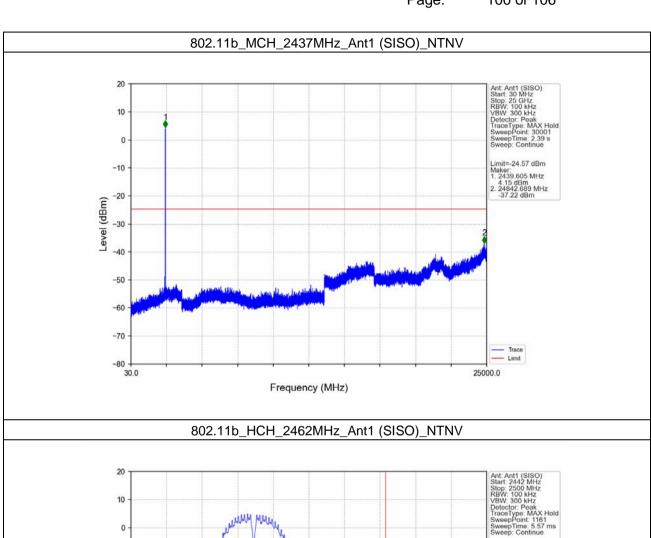
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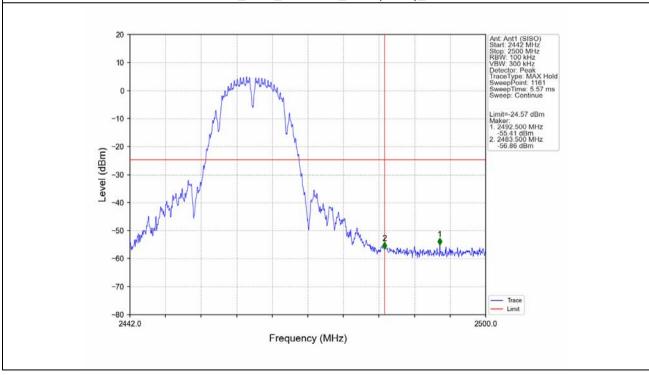


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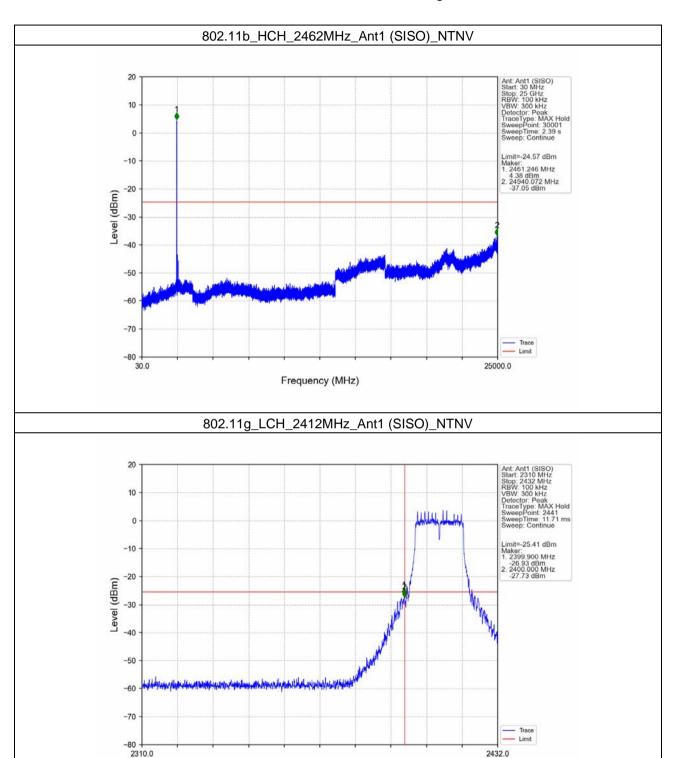
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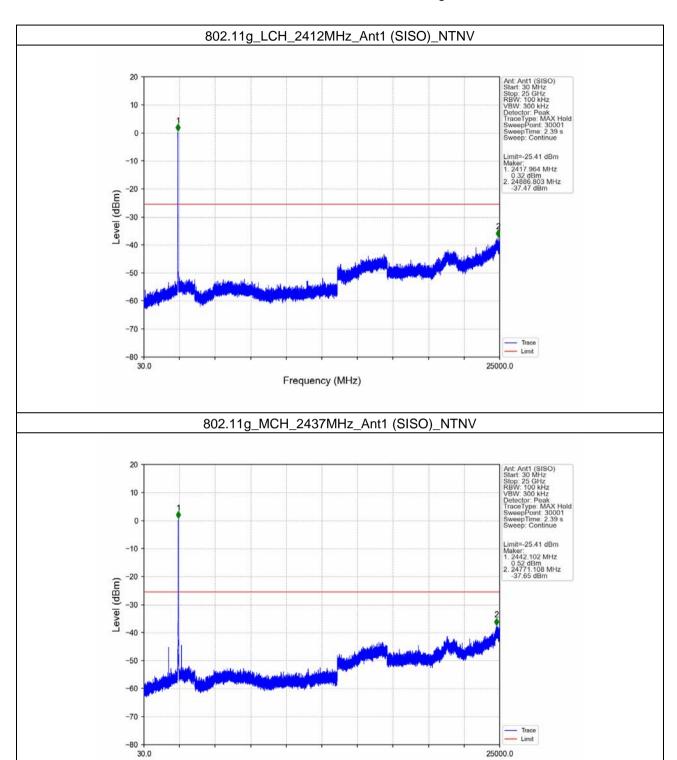
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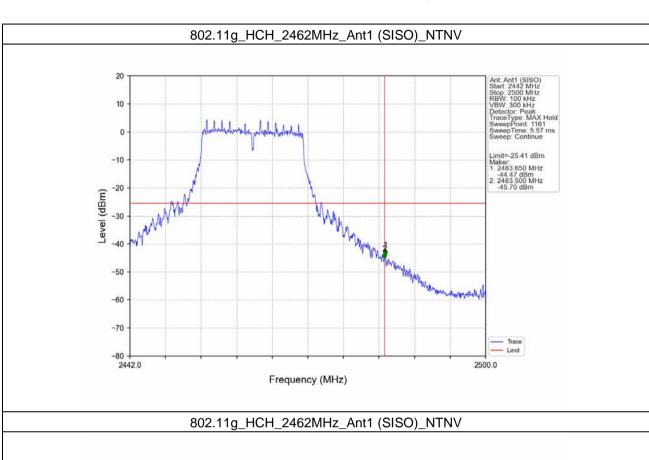
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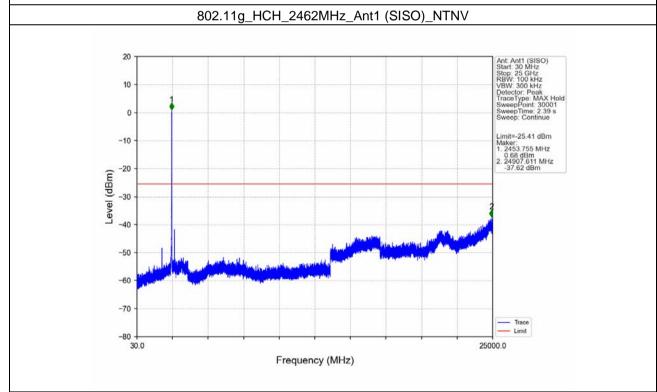


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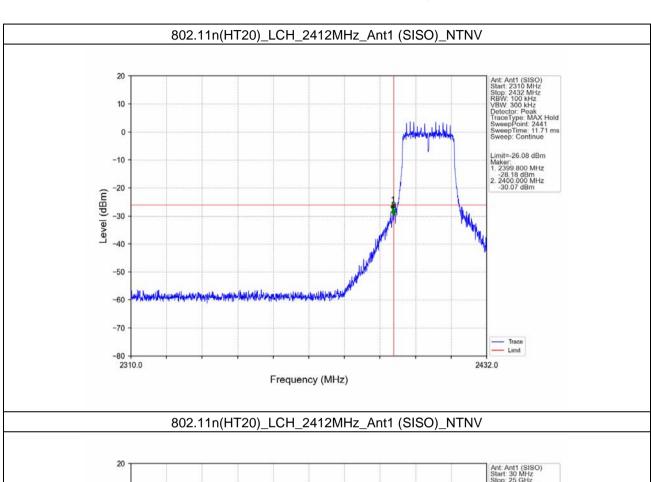
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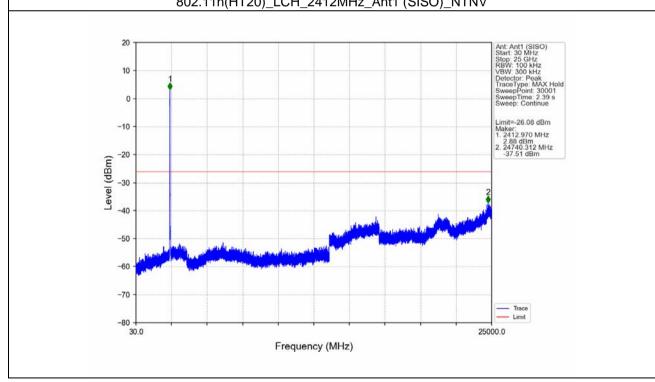


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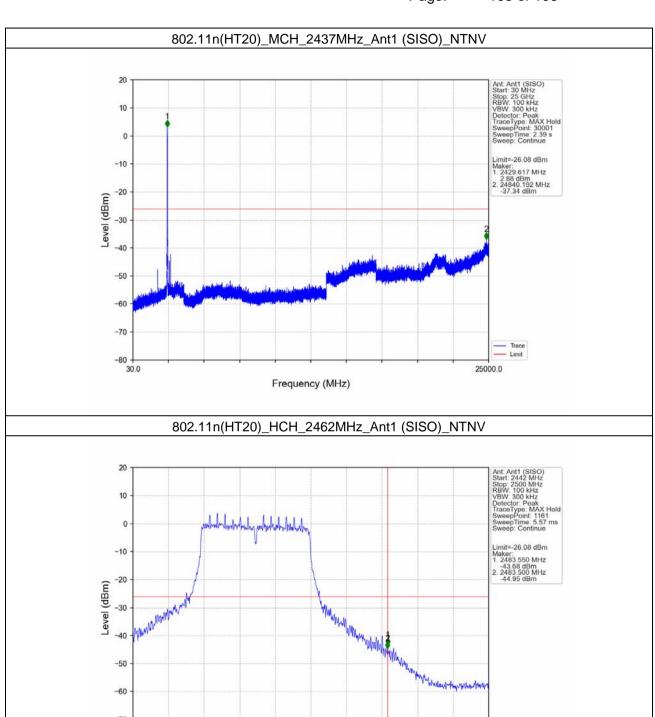
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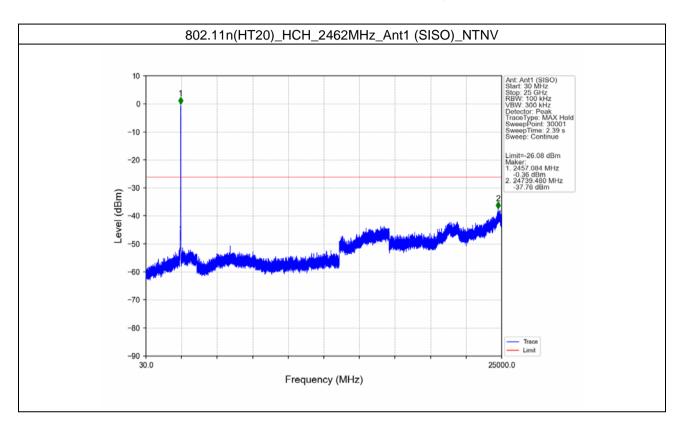
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