





SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250200049103

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TEST REPORT

Application No.: SZCR2502000491AT

Applicant: SZ Knowact Robot Technology Co., Ltd

Address of Applicant: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road,

Science Park Community, Yuehai Street, Nanshan District, Shenzhen,

China

Manufacturer: SZ Knowact Robot Technology Co., Ltd

Address of Manufacturer: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road,

Science Park Community, Yuehai Street, Nanshan District, Shenzhen,

China

Factory: SZ Knowact Robot Technology Co., Ltd

Address of Factory: Room C3-A081, Building C, Kexing Science Park, No. 15, Keyuan Road,

Science Park Community, Yuehai Street, Nanshan District, Shenzhen,

China

Equipment Under Test (EUT):

EUT Name: Caelone 01 Model No.: AUDAFV

FCC ID: 2BMUV-AUDAFV25

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

Date of Receipt: 2025-02-13

Date of Test: 2025-02-21 to 2025-03-20

Date of Issue: 2025-04-01

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku

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



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	Revision Record						
Version	Version Chapter Date Modifier Ren						
01		2025-04-01		Original			

Authorized for issue by:		
	Dorjar. Huang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

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

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



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General Information

Details of E.U.T. 4.1

Power supply:	Powered by Lithium Ion Rechargeable Battery.
	Battery information
	Model: WAADFBS
	Nominal voltage: 7.3V
Operation Fraguency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Operation Frequency:	802.11n(HT40): 2422MHz to 2452MHz
Madulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
number of Channels.	802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	1dBi
Antenna Number:	1
Cable Loss (for RF conducted test):	0.9dB
conducted test).	

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 Measurement Uncertainty

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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4.3 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.

4.4 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.

4.5 Deviation from Standards

None

4.6 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	ESR	SZ-WRG-M- 047	2025-01-8	2026-01-7	
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 2025-03-03	2025-03-13 2026-03-02	

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6	
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2025-01-7	2026-01-6	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

Radiated 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 2025-03-04	2025-03-13 2026-03-03	
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	
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-7	2026-01-6	
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M- 051	2025-01-7	2026-01-6	
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M- 052	2025-01-8	2026-01-7	
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20	
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M- 056	2023-12-25	2025-12-24	
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05	
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23	

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-14	2025-03-13
Power Sensor	131 PA33	13F32023R	3EM009-20	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
Power Sensor	RETSIGHT	U2U21XA	3EM009-10	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MVA Signal Analyzor	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
MXA Signal Analyzer	RETSIGHT	N9020A	3EM004-19	2025-03-04	2026-03-03
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-	SEM021-09	2024-03-27	2025-03-26
Allenualor	nuber+Sunner	1	3EIVIUZ 1-09	2025-03-03	2026-03-02

General used equipment							
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 2025-03-03	2025-03-17 2026-03-02		



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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 1dBi.

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:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

	T.Z. Test mode besorption								
Pre-scan / Final test	Mode Code	Description							
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							
Pre-scan	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							



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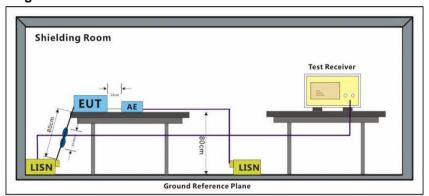
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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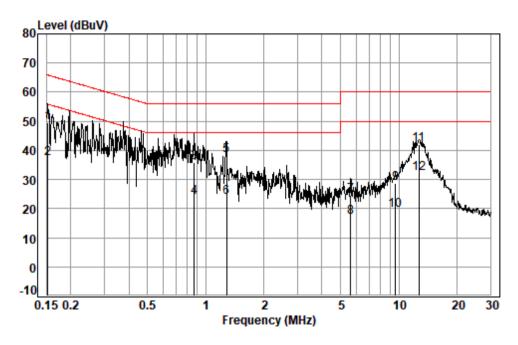


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Test Mode: 07; Line: Live line



: Shielding Room

Condition: Line Job No. : 00491AT

Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1524	0.06	10.19	39.18	49.43	65.87	-16.44	QP
2	0.1524	0.06	10.19	27.09	37.34	55.87	-18.53	Average
3	0.8710	0.09	9.61	26.29	35.99	56.00	-20.01	QP
4	0.8710	0.09	9.61	14.06	23.76	46.00	-22.24	Average
5	1.2824	0.09	9.58	28.60	38.27	56.00	-17.73	QP
6	1.2824	0.09	9.58	14.36	24.03	46.00	-21.97	Average
7	5.6234	0.13	9.67	14.81	24.61	60.00	-35.39	QP
8	5.6234	0.13	9.67	7.15	16.95	50.00	-33.05	Average
9	9.6028	0.20	9.69	18.80	28.69	60.00	-31.31	QP
10	9.6028	0.20	9.69	9.56	19.45	50.00	-30.55	Average
11	12.7161	0.24	9.83	32.00	42.07	60.00	-17.93	QP
12 *	12.7161	0.24	9.83	22.10	32.17	50.00	-17.83	Average



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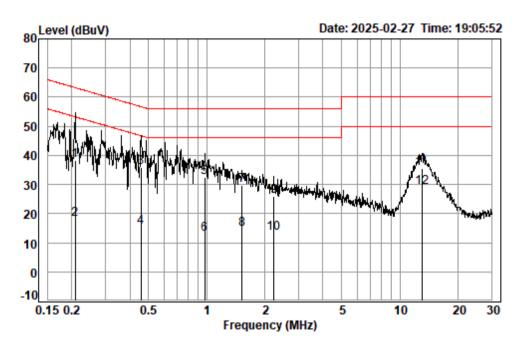


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Test Mode: 07; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00491AT

Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2083	0.06	10.05	28.16	38.27	63.27	-25.00	QP
2	0.2083	0.06	10.05	8.11	18.22	53.27	-35.05	Average
3 ;	* 0.4564	0.08	9.72	26.00	35.80	56.76	-20.96	QP
4	0.4564	0.08	9.72	5.61	15.41	46.76	-31.35	Average
5	0.9787	0.09	9.55	22.68	32.32	56.00	-23.68	QP
6	0.9787	0.09	9.55	3.15	12.79	46.00	-33.21	Average
7	1.5274	0.10	9.55	20.21	29.86	56.00	-26.14	QP
8	1.5274	0.10	9.55	4.98	14.63	46.00	-31.37	Average
9	2.2249	0.10	9.55	16.40	26.05	56.00	-29.95	QP
10	2.2249	0.10	9.55	3.77	13.42	46.00	-32.58	Average
11	12.9885	0.24	9.75	25.47	35.46	60.00	-24.54	QP
12 '	* 12.9885	0.24	9.75	19.12	29.11	50.00	-20.89	Average



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7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.0 °C Humidity: 60.1 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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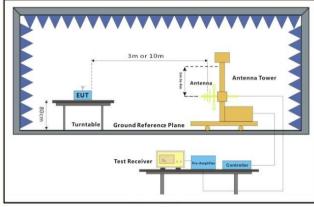


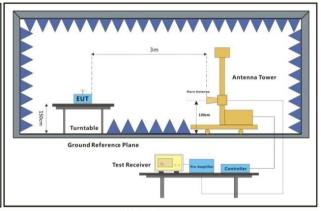
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7.2.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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7.2.4 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.
- i. 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.
- Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle≥98%) for Average detection (AV) at frequency above 1GHz.



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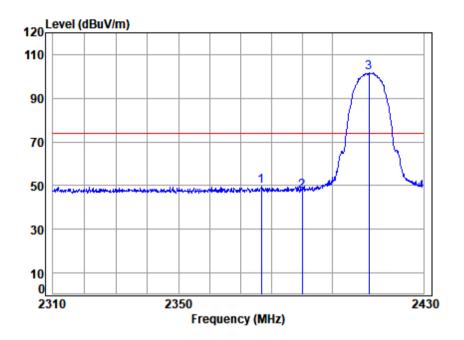


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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	
	2376.812	6.82	27.41	31.54	47.15	49.84	74.00	-24.16	peak
	2390.000	6.82	27.46	31.54	44.92	47.66	74.00	-26.34	peak
nn	2412 000	6 91	27 52	31 54	99 01	101 90	74 00	27 90	neak



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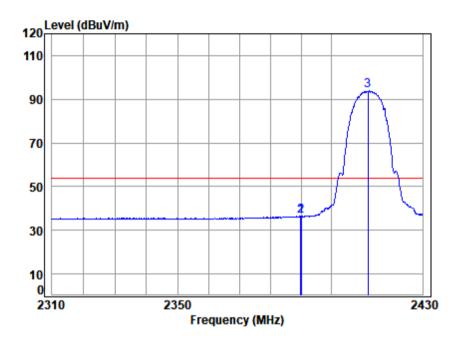


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2389.847	6.82	27.46	31.54	33.94	36.68	54.00	-17.32	Average	
	2390.000	6.82	27.46	31.54	33.78	36.52	54.00	-17.48	Average	
nn	2412 000	6 91	27 52	31 54	91 20	94 99	54 00	40 09	Average	



1 2

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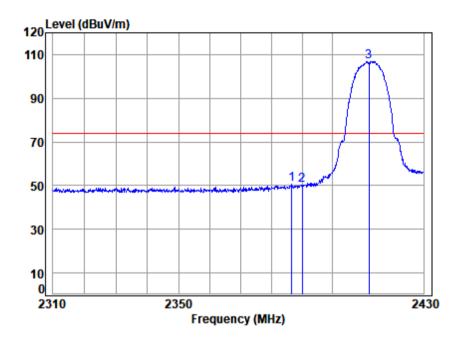


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 20 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 00491AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 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	
	2386.703	6.82	27.45	31.54	47.81	50.54	74.00	-23.46	Peak
	2390.000	6.82	27.46	31.54	47.47	50.21	74.00	-23.79	Peak
nn	2412 000	6 91	27 52	31 54	103 97	106 86	74 99	32 86	Peak



1 2

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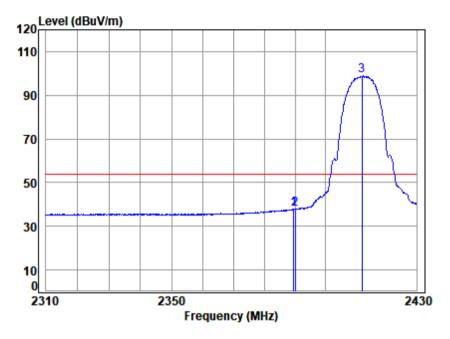


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 21 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 00491AT Mode : 2412 Band edge

: 2.4G Wi-Fi 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		
	2389.605	6.82	27.46	31.54	35.07	37.81	54.00	-16.19	Average	
	2390.000	6.82	27.46	31.54	35.05	37.79	54.00	-16.21	Average	
nn	2412 000	6 91	27 52	31 54	96 16	99 05	54 00	45 05	Average	



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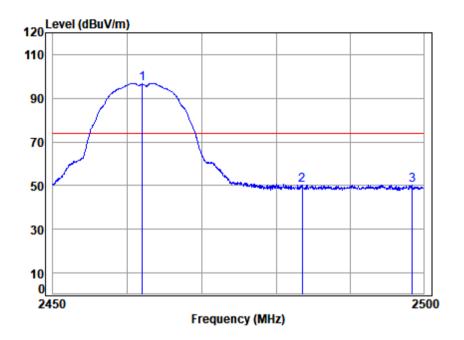


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 22 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	93.50	96.87	74.00	22.87	peak
2	2483.500	7.40	27.80	31.55	46.66	50.31	74.00	-23.69	peak
3	2498 485	7 50	27 89	31 55	46 48	50 32	74 99	-23 68	neak



2 3

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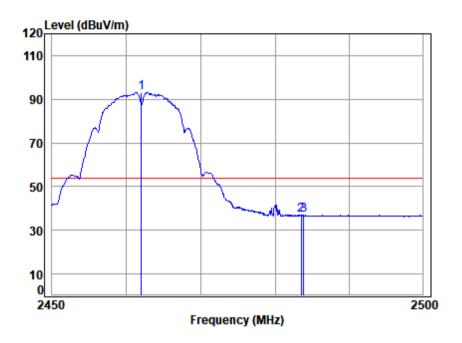


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 23 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 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 pp	2462.000	7.25	27.67	31.55	89.73	93.10	54.00	39.10	Average	
	2483.500								_	
3	2483.840	7.40	27.80	31.55	33.23	36.88	54.00	-17.12	Average	



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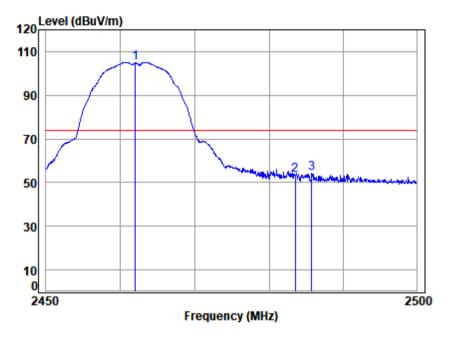


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 24 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2

Mode : 2462 Band edge

: 00491AT

: 2.4G Wi-Fi 11b

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 2462.000 7.25 27.67 31.55 101.71 105.08 74.00 31.08 Peak 74.00 -20.72 Peak 2483.500 7.40 27.80 31.55 49.63 53.28 2485.747 7.41 27.81 31.55 50.51 54.18 74.00 -19.82 Peak



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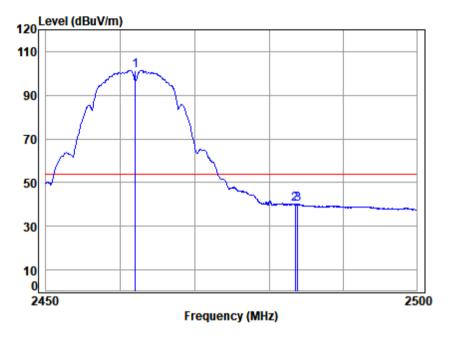


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 25 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

2

Mode : 2462 Band edge

: 00491AT

: 2.4G Wi-Fi 11b

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m 1 pp 2462.000 7.25 27.67 31.55 98.04 101.41 54.00 47.41 Average 2483.500 7.40 27.80 31.55 36.40 40.05 54.00 -13.95 Average 2483.890 7.40 27.80 31.55 36.41 40.06 54.00 -13.94 Average



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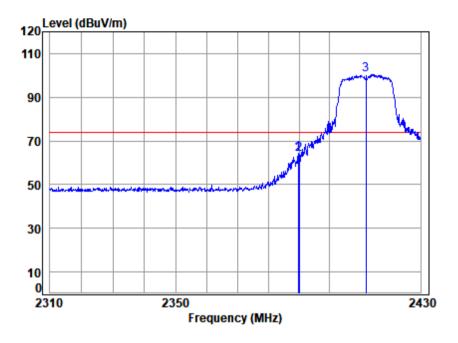


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 26 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.726	6.82	27.46	31.54	61.73	64.47	74.00	-9.53	peak	
	2390.000	6.82	27.46	31.54	61.20	63.94	74.00	-10.06	peak	
'n	2/12 000	6 91	27 52	31 5/	97 /17	100 36	7/ 00	26 36	neak	



1 2

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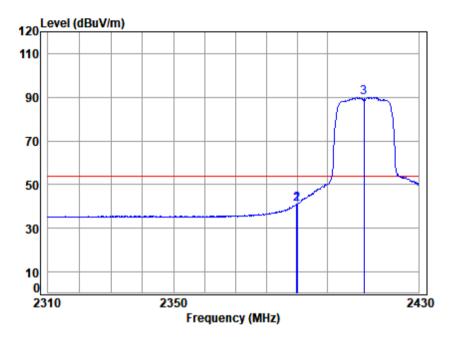


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 27 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

				•						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.847	6.82	27.46	31.54	38.23	40.97	54.00	-13.03	Average	
	2390.000	6.82	27.46	31.54	38.20	40.94	54.00	-13.06	Average	
nn	2412.000	6.91	27.52	31.54	87.10	89.99	54.00	35.99	Average	



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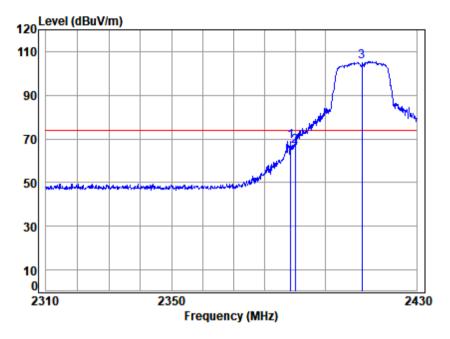


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

Mode : 2412 Band edge

: 00491AT

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 6.82 27.45 2388.637 31.54 66.06 68.79 74.00 -5.21 Peak -7.37 Peak 2390.000 6.82 27.46 31.54 63.89 66.63 74.00 3 pp 2412.000 6.91 27.52 31.54 102.69 105.58 74.00 31.58 Peak



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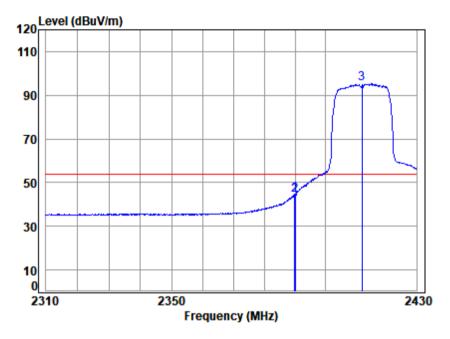


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

: 00491AT Mode : 2412 Band edge

: 2.4G Wi-Fi 11n20

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.847	6.82	27.46	31.54	41.86	44.60	54.00	-9.40	Average	
	2390.000	6.82	27.46	31.54	41.72	44.46	54.00	-9.54	Average	
nn	2412 000	6 91	27 52	31 54	92 37	95 26	54 00	41 26	Average	



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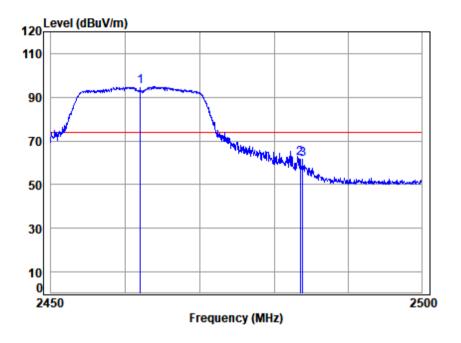


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 30 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	7.25	27.67	31.55	91.44	94.81	74.00	20.81	peak
2	2483.500	7.40	27.80	31.55	58.25	61.90	74.00	-12.10	peak
3	2483.840	7.40	27.80	31.55	58.04	61.69	74.00	-12.31	peak



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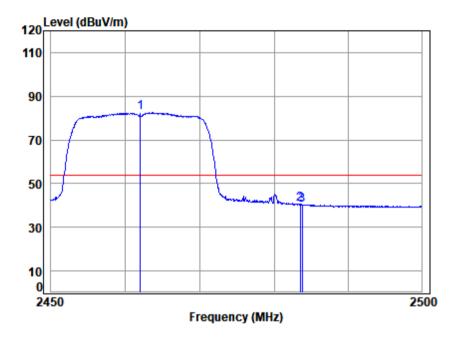


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Report No.: SZCR250200049103

Page: 31 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

	. 2140 MI 11 IIII20											
		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				
pp	2462.000	7.25	27.67	31.55	79.06	82.43	54.00	28.43	Average			
	2483.500	7.40	27.80	31.55	36.82	40.47	54.00	-13.53	Average			
	2483.790	7.40	27.80	31.55	36.71	40.36	54.00	-13.64	Average			



1

3

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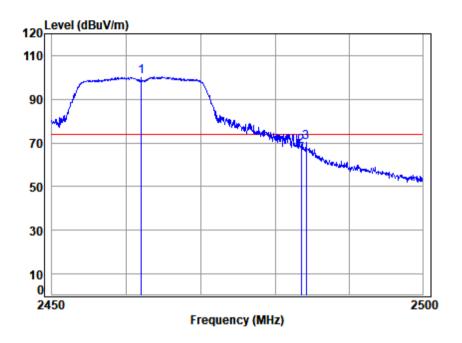


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 32 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 00491AT

2484.191

Mode : 2462 Band edge

: 2.4G Wi-Fi 11n20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 96.87 100.24 1 pp 2462.000 7.25 27.67 31.55 74.00 26.24 Peak 2483.500 7.40 27.80 31.55 64.72 68.37 74.00 -5.63 Peak

7.40 27.81 31.55 66.56 70.22 74.00



2

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-3.78 Peak

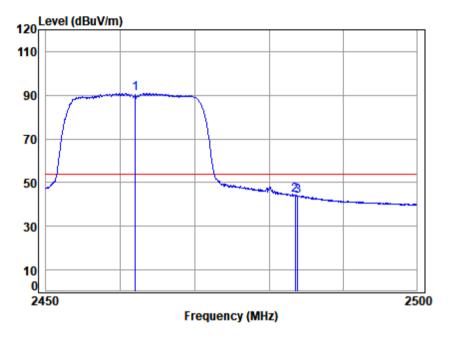


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

: 00491AT Mode : 2462 Band edge

: 2.4G Wi-Fi 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	pp	2462.000	7.25	27.67	31.55	87.61	90.98	54.00	36.98	Average	
		2483.500								_	
		2483 840								_	



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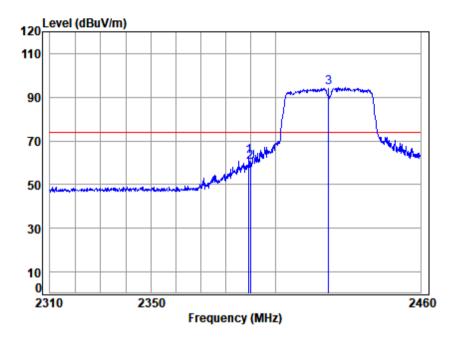


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 34 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2389.376	6.82	27.46	31.54	60.39	63.13	74.00	-10.87	peak
2	2390.000	6.82	27.46	31.54	57.69	60.43	74.00	-13.57	peak
3 рр	2422.000	6.98	27.54	31.54	91.30	94.28	74.00	20.28	peak



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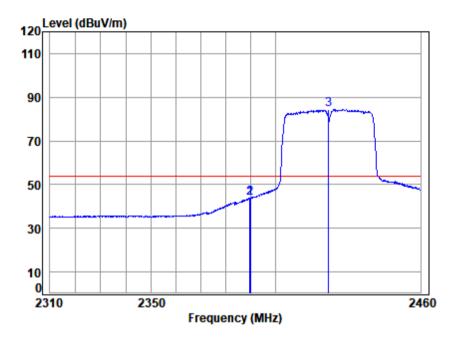


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 35 of 120

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2422 Band edge

: 2.4G Wi-Fi 11n40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.827	6.82	27.46	31.54	41.15	43.89	54.00	-10.11	Average
	2390.000	6.82	27.46	31.54	41.11	43.85	54.00	-10.15	Average
กก	2422.000	6.98	27.54	31.54	81.40	84.38	54.00	30.38	Average



1 2

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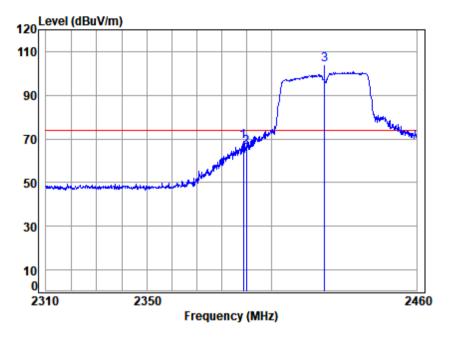


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 36 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

Mode : 2422 Band edge

: 00491AT

: 2.4G Wi-Fi 11n40

Cable Ant Preamp Read 0ver Limit Romank

		Freq	LOSS	Factor	Factor	revei	revei	Line	LIMIC	Kemark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2388.775	6.82	27.46	31.54	66.35	69.09	74.00	-4.91	Peak	
2		2390.000	6.82	27.46	31.54	63.50	66.24	74.00	-7.76	Peak	
3	pp	2422.000	6.98	27.54	31.54	100.85	103.83	74.00	29.83	Peak	



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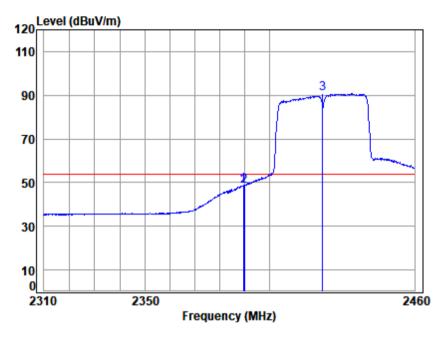


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 37 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

3 pp 2422.000

Mode : 2422 Band edge

: 00491AT

: 2.4G Wi-Fi 11n40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Level Line Freq Level dBuV dBuV/m dBuV/m MHz dB dB/m dB 2389.526 6.82 27.46 31.54 46.04 48.78 54.00 -5.22 Average 2390.000 6.82 27.46 31.54 45.78 48.52 54.00 -5.48 Average

6.98 27.54 31.54 87.63 90.61 54.00 36.61 Average



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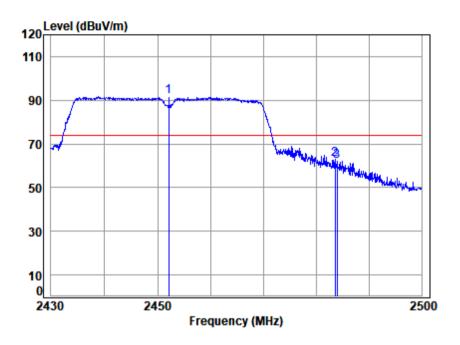


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

	Freq			Preamp Factor					Remark
	MHz			dB					
	2452.000								
2	2483.500	7.40	27.80	31.55	59.22	62.87	74.00	-11.13	peak
3	2483.865	7.40	27.80	31.55	58.46	62.11	74.00	-11.89	peak



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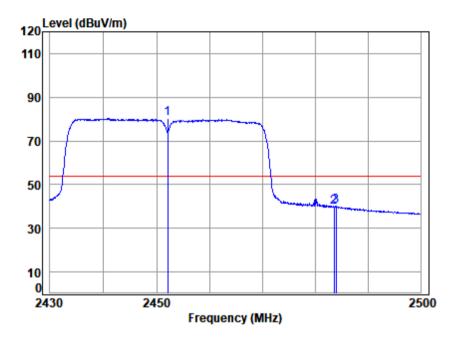


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	7.18	27.61	31.55	77.00	80.24	54.00	26.24	Average
2	2483.500	7.40	27.80	31.55	36.18	39.83	54.00	-14.17	Average
3	2483 865	7.40	27.80	31.55	36.39	40 04	54.00	-13.96	Average



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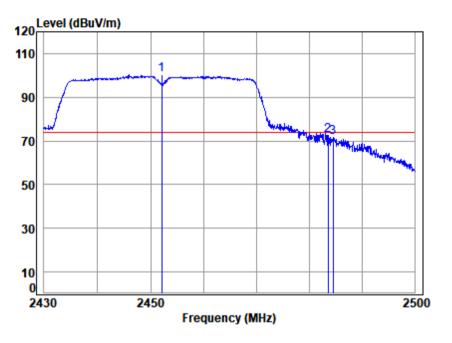


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 40 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

				•						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	2452.000	7.18	27.61	31.55	97.09	100.33	74.00	26.33	Peak	
	2483.500									
	2484.429	7.40	27.81	31.55	68.14	71.80	74.00	-2.20	Peak	



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3

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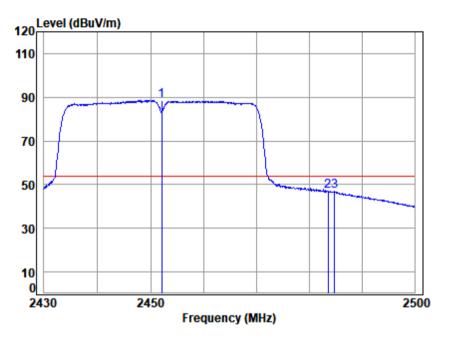


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

Page: 41 of 120

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2452 Band edge

: 2.4G Wi-Fi 11n40

	. 2.4	7 AAT 1	T TT114	•						
		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		
pp	2452.000	7.18	27.61	31.55	85.41	88.65	54.00	34.65	Average	
	2483.500	7.40	27.80	31.55	43.20	46.85	54.00	-7.15	Average	
	2484.711	7.41	27.81	31.55	43.22	46.89	54.00	-7.11	Average	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

23.2 °C Temperature: Humidity: 45.3 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.3.2 Test IV	oue De	scription
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), 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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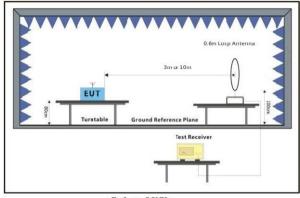
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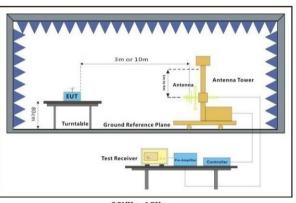


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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 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
- 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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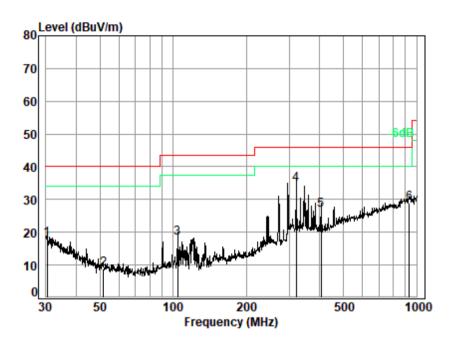


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Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00491AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.317	21.05	0.67	27.79	23.88	17.81	40.00	-22.19	QP
2	51.662	12.51	0.88	27.73	23.02	8.68	40.00	-31.32	QP
3	104.170	12.22	1.25	27.57	32.21	18.11	43.50	-25.39	QP
4 q	321.061	18.53	2.29	26.84	40.63	34.61	46.00	-11.39	QP
5	404.667	20.54	2.60	27.18	30.86	26.82	46.00	-19.18	QP
6	935.546	28.18	4.22	26.51	22.99	28.88	46.00	-17.12	OP



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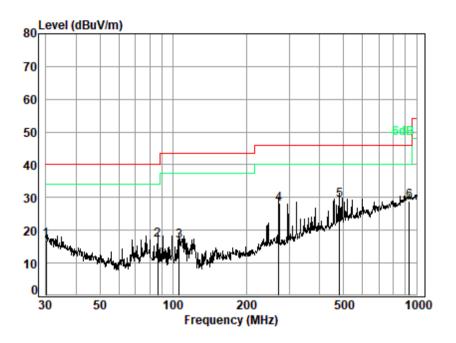


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Test Mode: 08; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 00491AT

Test Mode: 08

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.105	21.15	0.67	27.79	22.96	16.99	40.00	-23.01	QP
2	86.503	11.24	1.14	27.63	32.24	16.99	40.00	-23.01	QP
3	106.013	12.18	1.27	27.56	30.94	16.83	43.50	-26.67	QP
4	271.325	17.09	2.09	26.87	35.73	28.04	46.00	-17.96	QP
5 q	482.216	22.80	2.86	27.49	31.13	29.30	46.00	-16.70	QP
6	932.272	28.16	4.21	26.53	23.06	28.90	46.00	-17.10	QP



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7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 59.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

7.4.2 Test IV	oue De	scription
Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	08	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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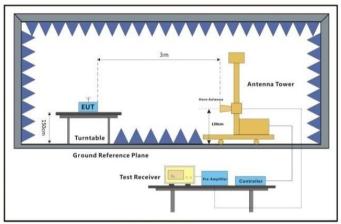


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7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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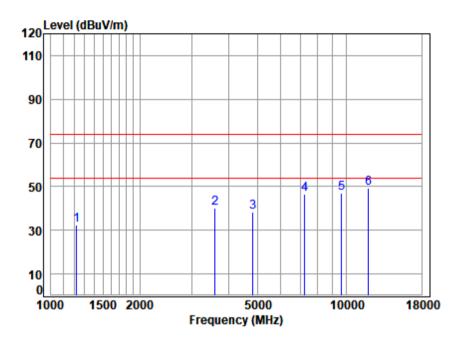


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	1224.247	7.18	25.30	54.70	54.65	32.43	74.00	-41.57	peak
2	3598.203	7.76	29.90	55.36	57.81	40.11	74.00	-33.89	peak
3	4824.000	8.92	32.00	56.18	53.39	38.13	74.00	-35.87	peak
4	7236.000	11.10	36.60	56.51	55.46	46.65	74.00	-27.35	peak
5	9648.000	12.49	38.70	54.42	50.13	46.90	74.00	-27.10	peak
6	pp11906.070	14.62	39.71	53.77	48.71	49.27	74.00	-24.73	peak



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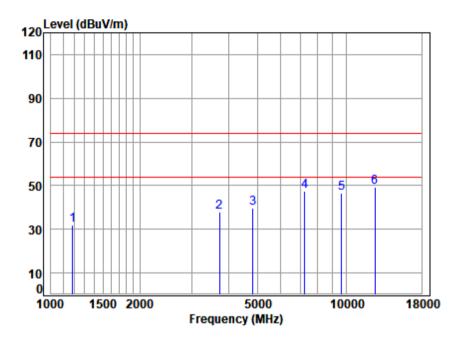


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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	1182.513	7.17	25.33	54.70	54.22	32.02	74.00	-41.98	peak
2	3725.195	7.92	29.85	55.44	55.62	37.95	74.00	-36.05	peak
3	4824.000	8.92	32.00	56.18	54.78	39.52	74.00	-34.48	peak
4	7236.000	11.10	36.60	56.51	56.48	47.67	74.00	-26.33	peak
5	9648.000	12.49	38.70	54.42	49.57	46.34	74.00	-27.66	peak
6	pp12505.710	14.87	39.91	54.15	48.85	49.48	74.00	-24.52	peak



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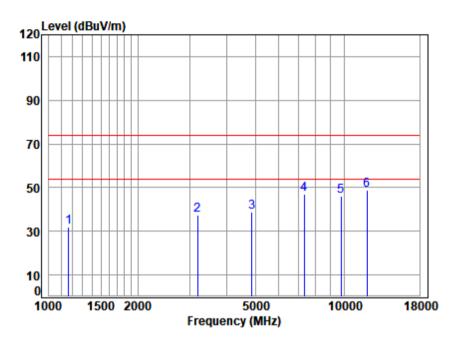


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1165.546	7.16	25.37	54.70	54.28	32.11	74.00	-41.89	peak
2	3186.869	7.70	29.20	55.11	55.46	37.25	74.00	-36.75	Peak
3	4874.000	8.97	32.15	56.21	54.02	38.93	74.00	-35.07	peak
4	7311.000	11.11	36.72	56.45	55.69	47.07	74.00	-26.93	peak
5	9748.000	12.80	38.60	54.33	49.07	46.14	74.00	-27.86	peak
6	pp11940.540	14.52	39.74	53.78	48.47	48.95	74.00	-25.05	peak



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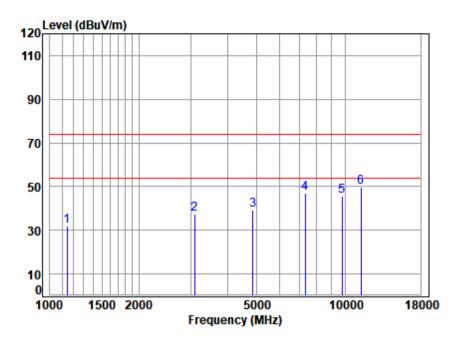


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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1145.507	7.14	25.42	54.70	54.26	32.12	74.00	-41.88	peak
2	3096.075	7.73	29.11	55.06	55.47	37.25	74.00	-36.75	peak
3	4874.000	8.97	32.15	56.21	54.14	39.05	74.00	-34.95	peak
4	7311.000	11.11	36.72	56.45	55.68	47.06	74.00	-26.94	peak
5	9748.000	12.80	38.60	54.33	48.70	45.77	74.00	-28.23	peak
6	pp11302.480	14.39	39.70	53.59	49.33	49.83	74.00	-24.17	peak



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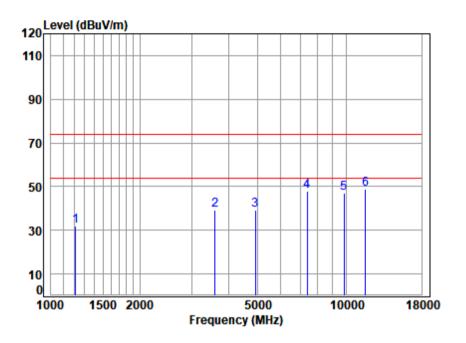


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	1213.677	7.18	25.30	54.70	54.06	31.84	74.00	-42.16	peak
2	3598.203	7.76	29.90	55.36	57.07	39.37	74.00	-34.63	peak
3	4924.000	9.03	32.20	56.25	54.25	39.23	74.00	-34.77	peak
4	7386.000	11.19	36.73	56.39	56.48	48.01	74.00	-25.99	peak
5	9848.000	12.84	37.83	54.24	50.36	46.79	74.00	-27.21	peak
6	pp11633.930	14.45	39.57	53.69	48.68	49.01	74.00	-24.99	peak



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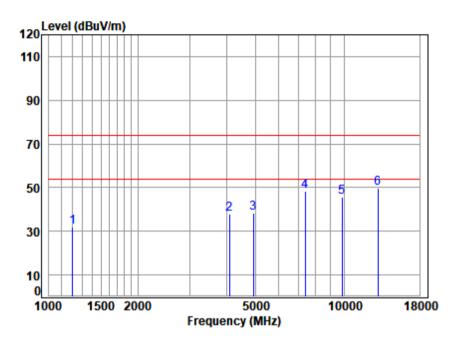


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 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	1203.199	7.19	25.30	54.70	54.34	32.13	74.00	-41.87	peak
2	4086.182	8.33	30.37	55.66	54.70	37.74	74.00	-36.26	peak
3	4924.000	9.03	32.20	56.25	53.57	38.55	74.00	-35.45	peak
4	7386.000	11.19	36.73	56.39	56.81	48.34	74.00	-25.66	peak
5	9848.000	12.84	37.83	54.24	49.32	45.75	74.00	-28.25	peak
6	pp12984.540								•



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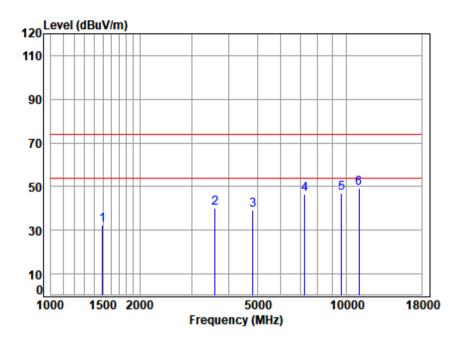


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	1494.455	7.22	24.92	54.70	55.15	32.59	74.00	-41.41	peak
2	3598.203	7.76	29.90	55.36	57.71	40.01	74.00	-33.99	peak
3	4824.000	8.92	32.00	56.18	54.59	39.33	74.00	-34.67	peak
4	7236.000	11.10	36.60	56.51	55.44	46.63	74.00	-27.37	peak
5	9648.000	12.49	38.70	54.42	50.15	46.92	74.00	-27.08	peak
6	pp11044.130	14.18	39.44	53.51	49.09	49.20	74.00	-24.80	peak



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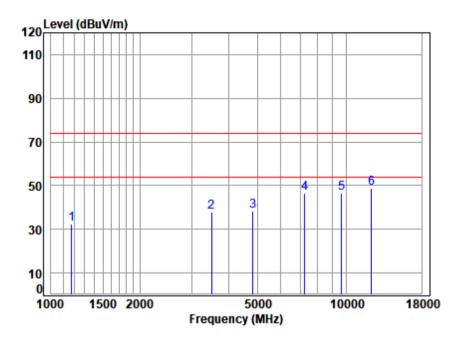


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2412 TX RSE

: 2.4G Wi-Fi 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	
	4475 607	7.47	25.25	F4 70	F4 70	20.64	74.00	44 70	
1	1175.697	/.1/	25.35	54.70	54.79	32.61	74.00	-41.39	peak
2	3505.809	7.73	29.62	55.30	55.94	37.99	74.00	-36.01	peak
3	4824.000	8.92	32.00	56.18	53.68	38.42	74.00	-35.58	peak
4	7236.000	11.10	36.60	56.51	55.18	46.37	74.00	-27.63	peak
5	9648.000	12.49	38.70	54.42	49.77	46.54	74.00	-27.46	peak
6	pp12184.580	14.48	39.87	53.93	48.46	48.88	74.00	-25.12	peak



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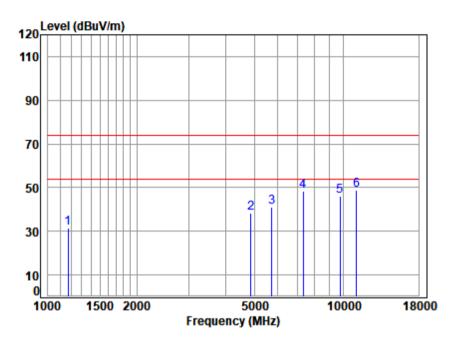


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1168.920	7.16	25.36	54.70	53.65	31.47	74.00	-42.53	peak
2	4874.000	8.97	32.15	56.21	53.31	38.22	74.00	-35.78	peak
3	5730.396	9.91	33.26	56.74	54.83	41.26	74.00	-32.74	Peak
4	7311.000	11.11	36.72	56.45	57.17	48.55	74.00	-25.45	peak
5	9748.000	12.80	38.60	54.33	49.22	46.29	74.00	-27.71	peak
6	pp11076.100	14.14	39.48	53.52	48.66	48.76	74.00	-25.24	peak



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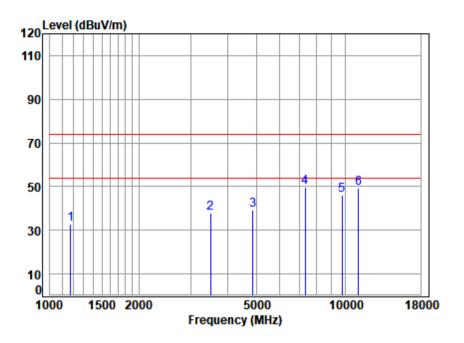


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 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	1175.697	7.17	25.35	54.70	55.24	33.06	74.00	-40.94	peak
2	3505.809	7.73	29.62	55.30	55.81	37.86	74.00	-36.14	peak
3	4874.000	8.97	32.15	56.21	54.51	39.42	74.00	-34.58	peak
4	pp 7311.000	11.11	36.72	56.45	58.14	49.52	74.00	-24.48	peak
5	9748.000	12.80	38.60	54.33	49.21	46.28	74.00	-27.72	peak
6	11108.160	14.13	39.51	53.53	49.31	49.42	74.00	-24.58	peak



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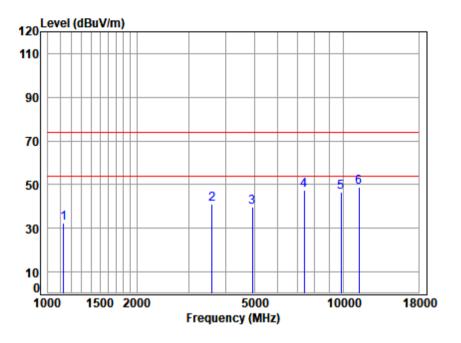


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	d Bu V/m	dB	
1	1132.340	7.13	25.47	54.70	54.42	32.32	74.00	-41.68	peak
2	3598.203	7.76	29.90	55.36	58.55	40.85	74.00	-33.15	peak
3	4924.000	9.03	32.20	56.25	54.55	39.53	74.00	-34.47	peak
4	7386.000	11.19	36.73	56.39	55.75	47.28	74.00	-26.72	peak
5	9848.000	12.84	37.83	54.24	50.01	46.44	74.00	-27.56	peak
6	pp11302.480	14.39	39.70	53.59	48.29	48.79	74.00	-25.21	peak



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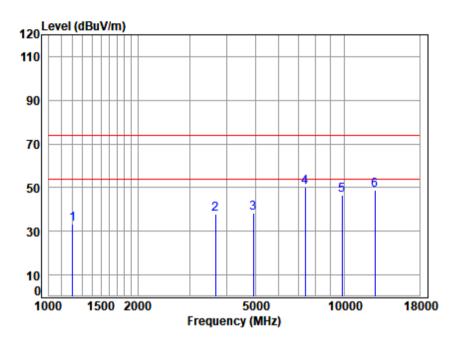


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Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2462 TX RSE

: 2.4G Wi-Fi 11n20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
					-ID-34	-ID- A//	-ID- A//		
	MHz	ав	aB/m	dB	abuv	abuv/m	abuv/m	dB	
1	1203.199	7.19	25.30	54.70	55.35	33.14	74.00	-40.86	peak
2	3661.149	7.84	29.80	55.40	55.48	37.72	74.00	-36.28	peak
3	4924.000	9.03	32.20	56.25	53.24	38.22	74.00	-35.78	peak
4	pp 7386.000	11.19	36.73	56.39	58.89	50.42	74.00	-23.58	peak
5	9848.000	12.84	37.83	54.24	50.01	46.44	74.00	-27.56	peak
6	12724.470	14.99	40.22	54.31	48.06	48.96	74.00	-25.04	peak



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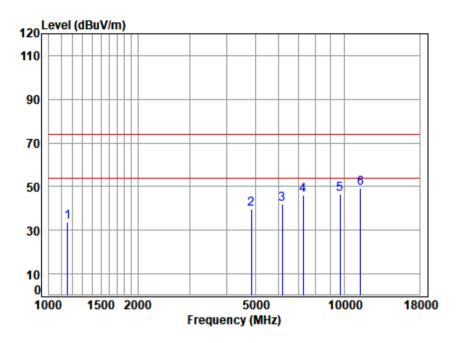


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB		——dB		dRu\//m	dRu\//m	dB	
	PINZ	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
	1155.483	7.15	25.39	54.70	55.73	33.57	74.00	-40.43	peak
•	4844.000	8.94	32.08	56.19	54.89	39.72	74.00	-34.28	peak
,	6159.797	10.42	34.18	56.87	54.19	41.92	74.00	-32.08	Peak
Ļ	7266.000	11.10	36.63	56.49	54.71	45.95	74.00	-28.05	peak
,	9688.000	12.61	38.70	54.38	49.49	46.42	74.00	-27.58	peak
,	pp11335.190	14.29	39.70	53.60	49.00	49.39	74.00	-24.61	peak



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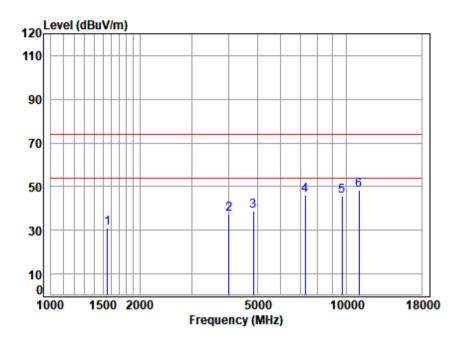


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200049103

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2422 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1551.677	7.16	25.00	54.70	53.76	31.22	74.00	-42.78	Peak
2	4004.339	8.13	30.21	55.60	54.82	37.56	74.00	-36.44	peak
3	4844.000	8.94	32.08	56.19	53.98	38.81	74.00	-35.19	peak
4	7266.000	11.10	36.63	56.49	54.91	46.15	74.00	-27.85	peak
5	9688.000	12.61	38.70	54.38	48.89	45.82	74.00	-28.18	peak
6	pp11044.130	14.18	39.44	53.51	48.23	48.34	74.00	-25.66	Peak



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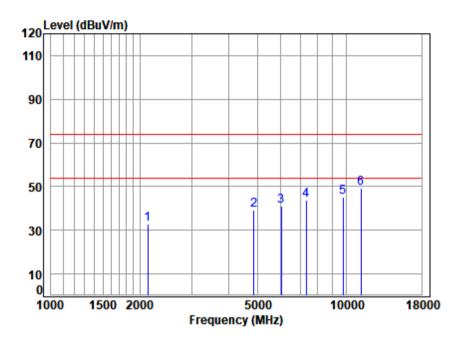


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2132.462	7.27	27.14	54.74	53.15	32.82	74.00	-41.18	Peak
2	4874.000	8.97	32.15	56.21	54.20	39.11	74.00	-34.89	peak
3	6036.421	10.16	33.87	56.89	53.92	41.06	74.00	-32.94	Peak
4	7311.000	11.11	36.72	56.45	52.27	43.65	74.00	-30.35	peak
5	9748.000	12.80	38.60	54.33	48.30	45.37	74.00	-28.63	peak
6	pp11204.900	14.25	39.60	53.56	48.94	49.23	74.00	-24.77	peak



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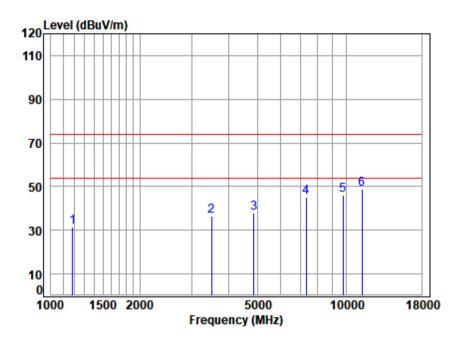


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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2437 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1182.513	7.17	25.33	54.70	53.69	31.49	74.00	-42.51	peak
2	3495.691	7.73	29.58	55.30	54.51	36.52	74.00	-37.48	peak
3	4874.000	8.97	32.15	56.21	52.79	37.70	74.00	-36.30	peak
4	7311.000	11.11	36.72	56.45	53.90	45.28	74.00	-28.72	peak
5	9748.000	12.80	38.60	54.33	48.87	45.94	74.00	-28.06	peak
6	pp11302.480	14.39	39.70	53.59	48.16	48.66	74.00	-25.34	Peak



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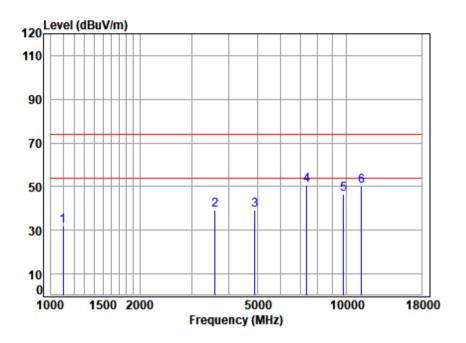


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 00491AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
									_
1	1100.079	7.10	25.60	54.70	53.99	31.99	74.00	-42.01	peak
2	3598.203	7.76	29.90	55.36	57.04	39.34	74.00	-34.66	Peak
3	4904.000	9.00	32.20	56.23	54.06	39.03	74.00	-34.97	peak
4	pp 7356.000	11.16	36.79	56.42	59.18	50.71	74.00	-23.29	peak
5	9808.000	12.96	38.47	54.27	49.30	46.46	74.00	-27.54	peak
6	11269.860	14.35	39.67	53.58	49.54	49.98	74.00	-24.02	peak



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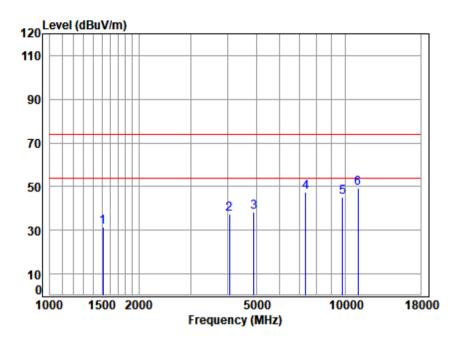


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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 00491AT

Mode : 2452 TX RSE

: 2.4G Wi-Fi 11n40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1511.833	7.21	24.92	54.70	54.28	31.71	74.00	-42.29	peak
2	4050.904	8.24	30.30	55.64	54.63	37.53	74.00	-36.47	peak
3	4904.000	9.00	32.20	56.23	53.55	38.52	74.00	-35.48	peak
4	7356.000	11.16	36.79	56.42	55.97	47.50	74.00	-26.50	peak
5	9808.000	12.96	38.47	54.27	47.89	45.05	74.00	-28.95	peak
6	pp11044.130	14.18	39.44	53.51	48.97	49.08	74.00	-24.92	peak



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7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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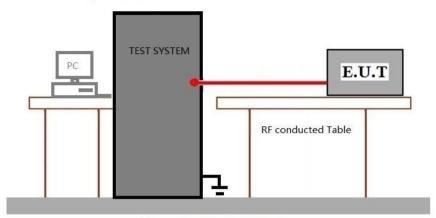


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.6 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

7.6.1 E.U.T. Operation

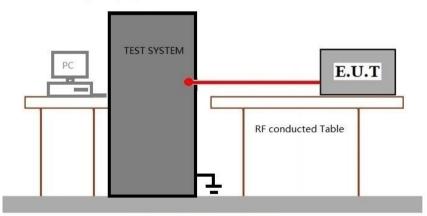
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 22.2 °C Humidity: 40.4 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				

7.6.3 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 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

7.7.1 E.U.T. Operation

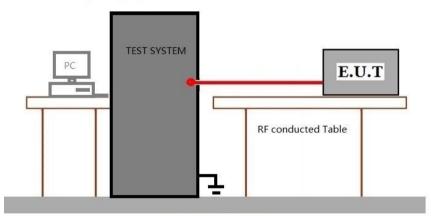
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 22.2 °C Humidity: 40.4 % RH

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.					



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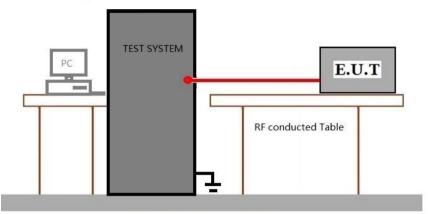


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7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 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).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22.2 °C Humidity: 40.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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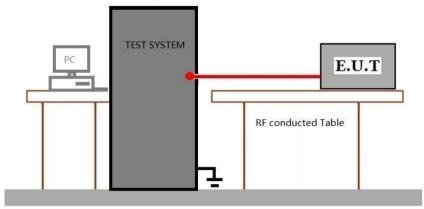


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7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Appendix - Test Setup Photos for SZCR2502000491AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal photos for SZCR2502000491AT



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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 (%)	
		2412	8.444	8.574	98.48	0.07	0.12	
802.11b	SISO	2437	8.416	8.556	98.36	0.07	0.04	
		2462	8.417	8.557	98.36	0.07	0.04	
		2412	1.397	1.531	91.25	0.40	0.03	
802.11g	SISO	2437	1.396	1.692	82.51	0.84	8.74	
		2462	1.397	1.621	86.18	0.65	5.07	
000 44		2412	1.308	1.452	90.08	0.45	0.60	
802.11n (HT20)	SISO	2437	1.308	1.551	84.33	0.74	6.35	
(11120)		2462	1.308	1.677	78.00	1.08	12.66	
000 44		2422	0.649	0.783	82.89	0.82	0.03	
802.11n (HT40)	SISO	2437	0.649	1.008	64.38	1.91	18.52	
(11140)		2452	0.649	0.891	72.84	1.38	10.05	



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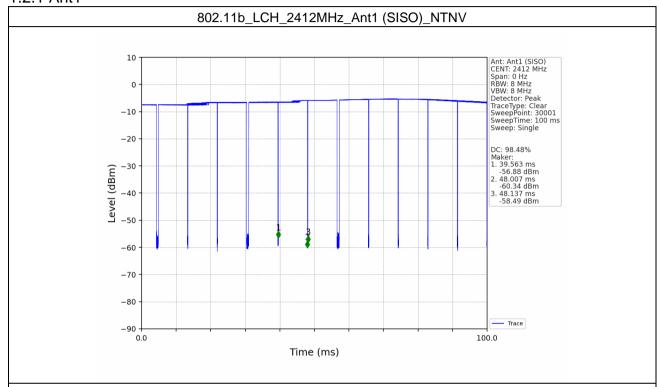
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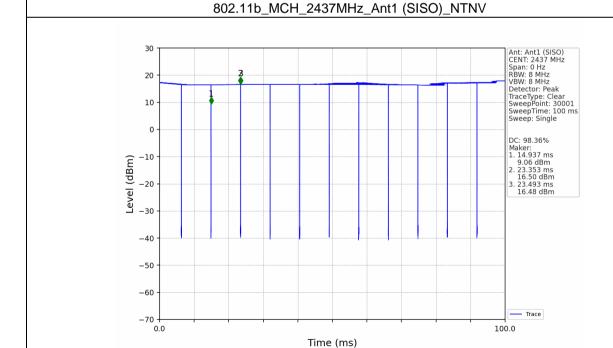
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1.2 Test Graph

1.2.1 Ant1







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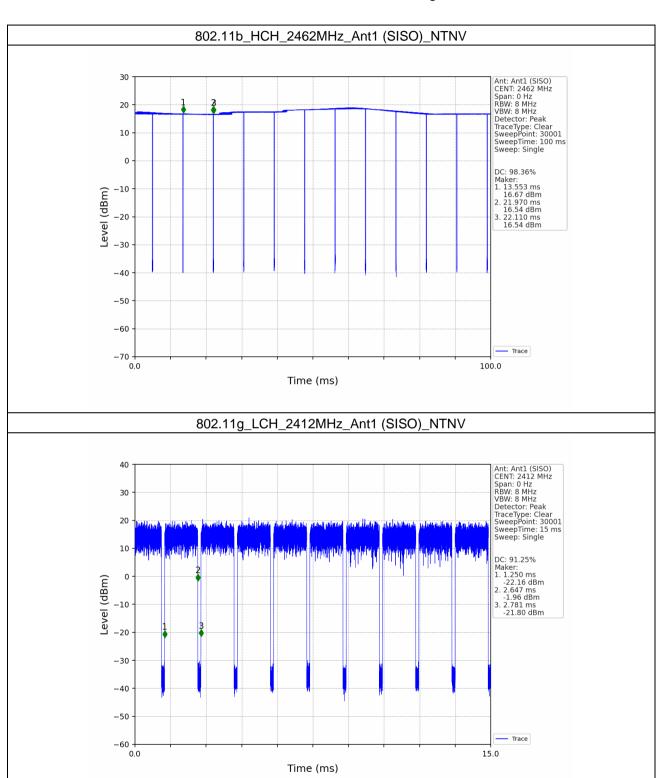
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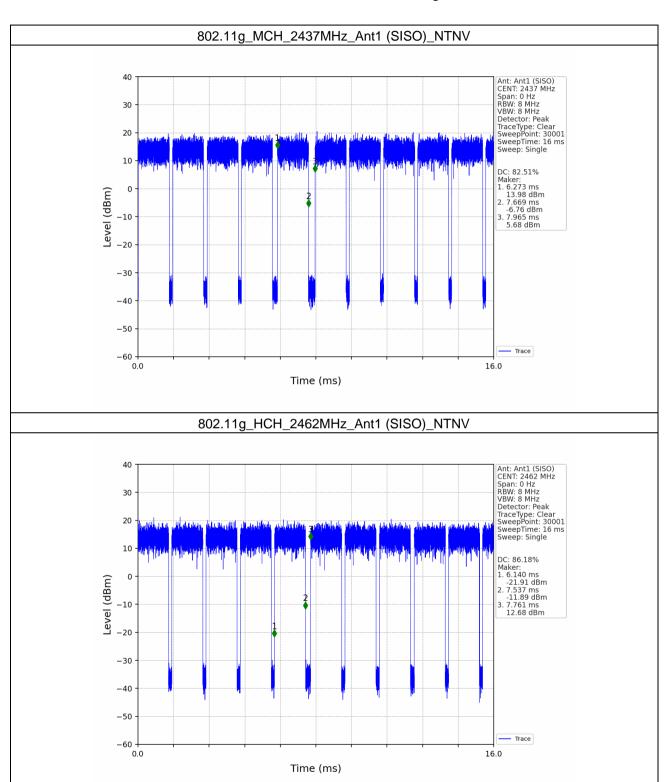
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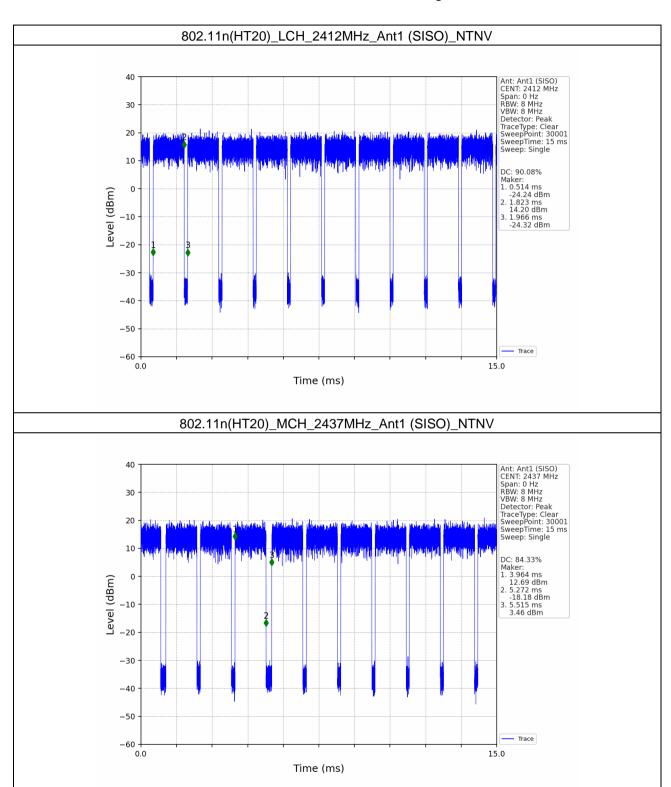
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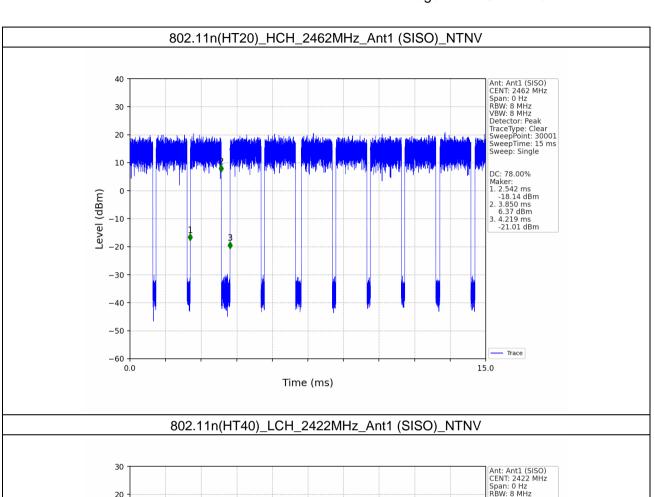
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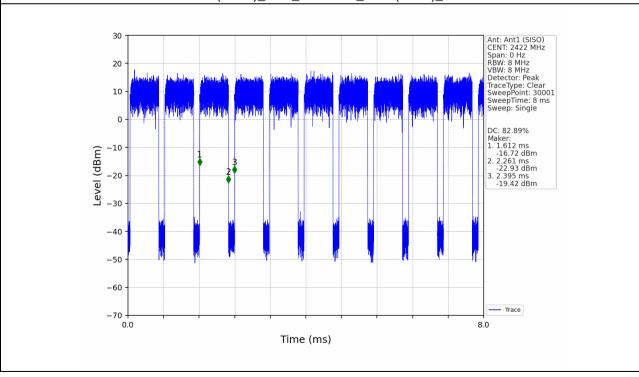


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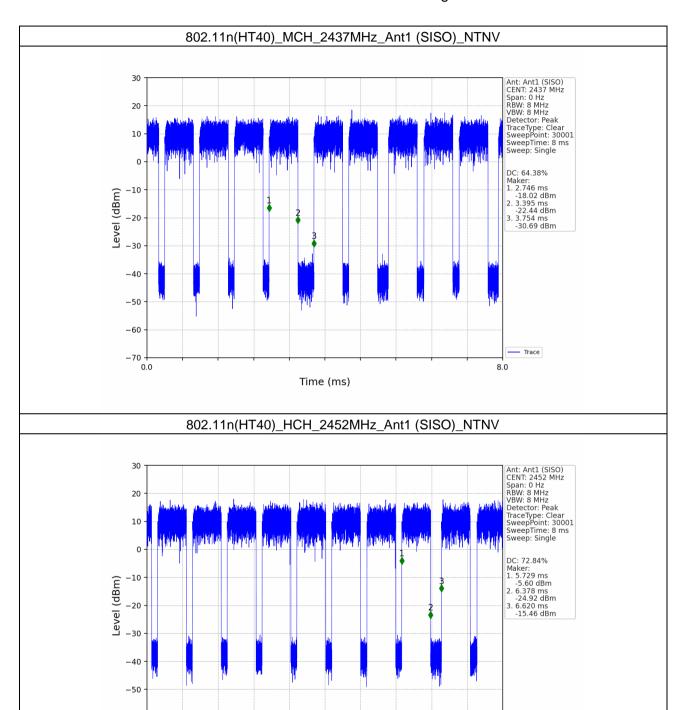
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency (MHz) ANT	ANIT	99% Occupied B	Verdict	
	Type		Result	Limit		
		2412	1	11.772	/	Pass
802.11b	SISO	2437	1	11.672	/	Pass
		2462	1	11.649	/	Pass
802.11g	SISO	2412	1	17.450	/	Pass
		2437	1	17.455	/	Pass
		2462	1	17.495	/	Pass
202.11	SISO	2412	1	18.214	/	Pass
802.11n (HT20)		2437	1	18.310	/	Pass
(11120)		2462	1	18.307	/	Pass
802.11n (HT40)	SISO	2422	1	36.809	/	Pass
		2437	1	36.845	/	Pass
		2452	1	36.912	/	Pass

2.1.2 6dB BW

Mode	TX	Frequency	ANIT	6dB Bandv	Verdict	
Mode	Type	(MHz) ANT		Result		Limit
		2412	1	8.130	>=0.5	Pass
802.11b	SISO	2437	1	8.586	>=0.5	Pass
		2462	1	8.131	>=0.5	Pass
	SISO	2412	1	16.336	>=0.5	Pass
802.11g		2437	1	16.334	>=0.5	Pass
		2462	1	16.308	>=0.5	Pass
000 44	SISO	2412	1	17.067	>=0.5	Pass
802.11n (HT20)		2437	1	16.953	>=0.5	Pass
(11120)		2462	1	16.967	>=0.5	Pass
000.44	SISO	2422	1	35.764	>=0.5	Pass
802.11n (HT40)		2437	1	36.065	>=0.5	Pass
(11140)		2452	1	35.924	>=0.5	Pass



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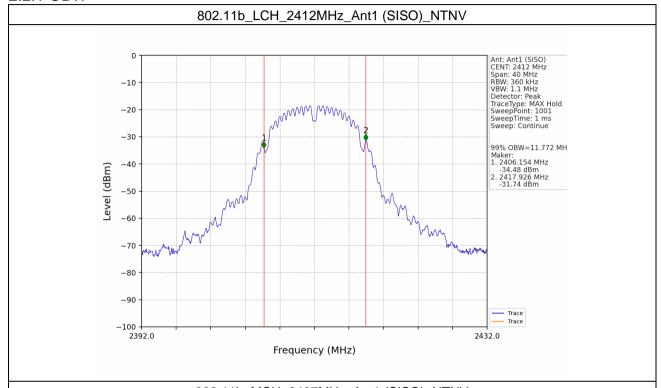
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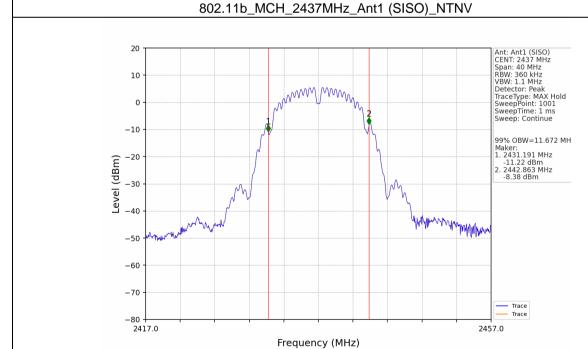
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2.2 Test Graph

2.2.1 OBW







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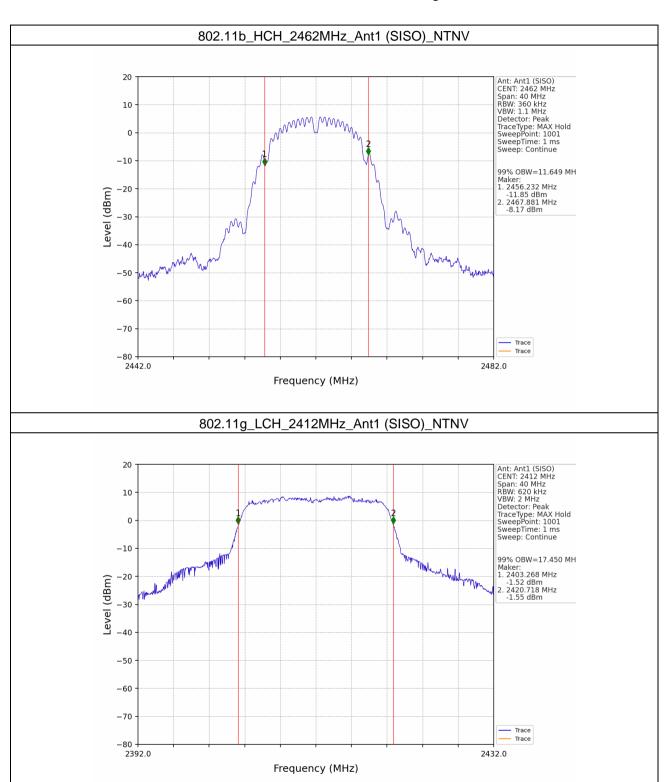
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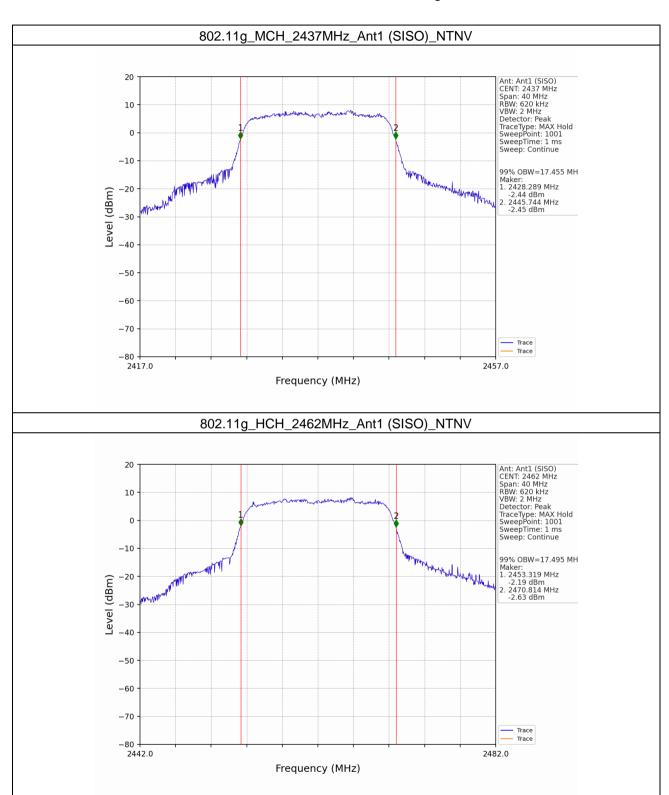
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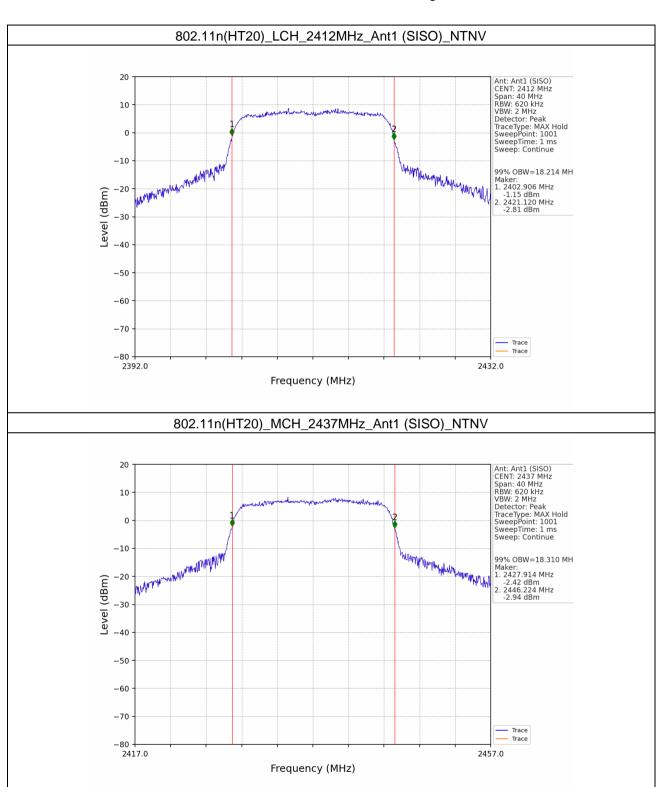
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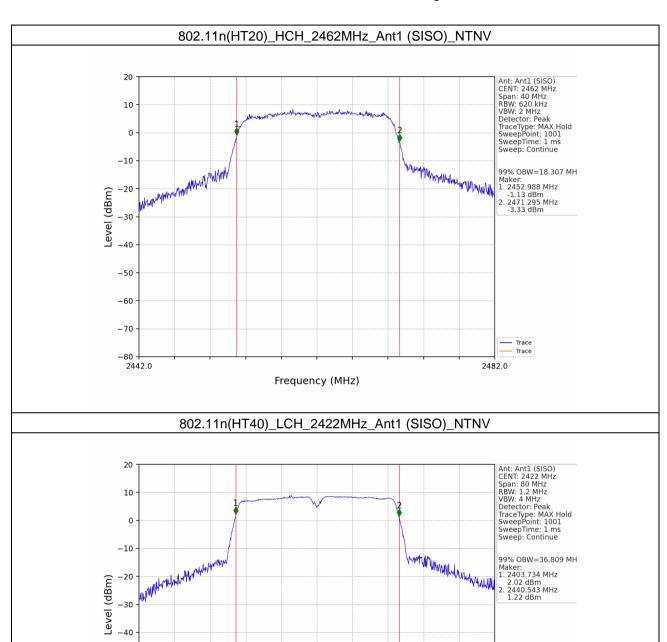
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-50

-60

-70

-80 2382.0

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Frequency (MHz)

Trace

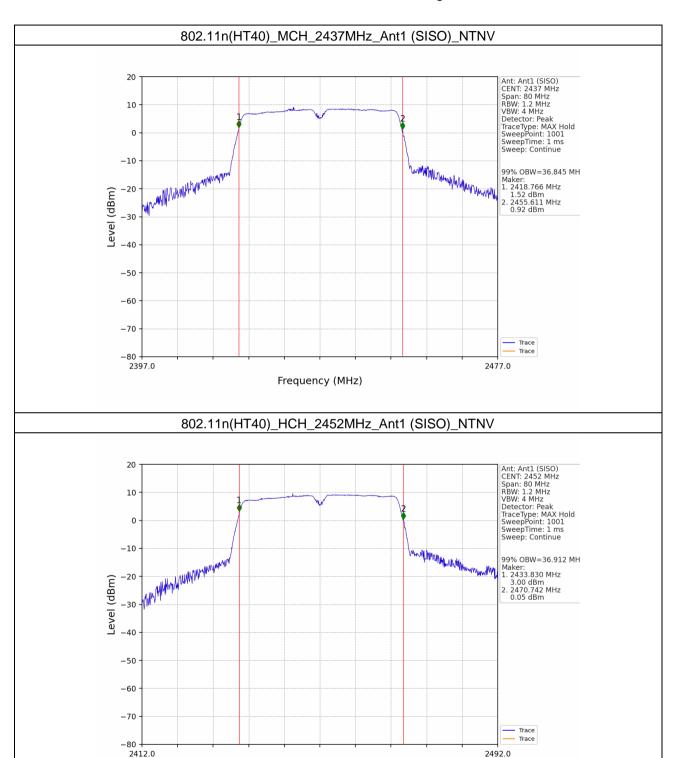
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Frequency (MHz)

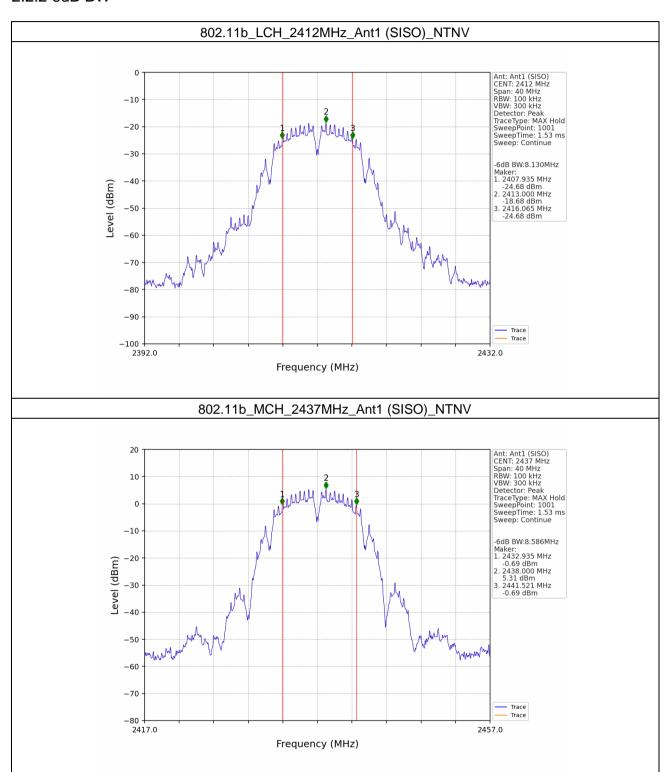


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2.2.2 6dB BW





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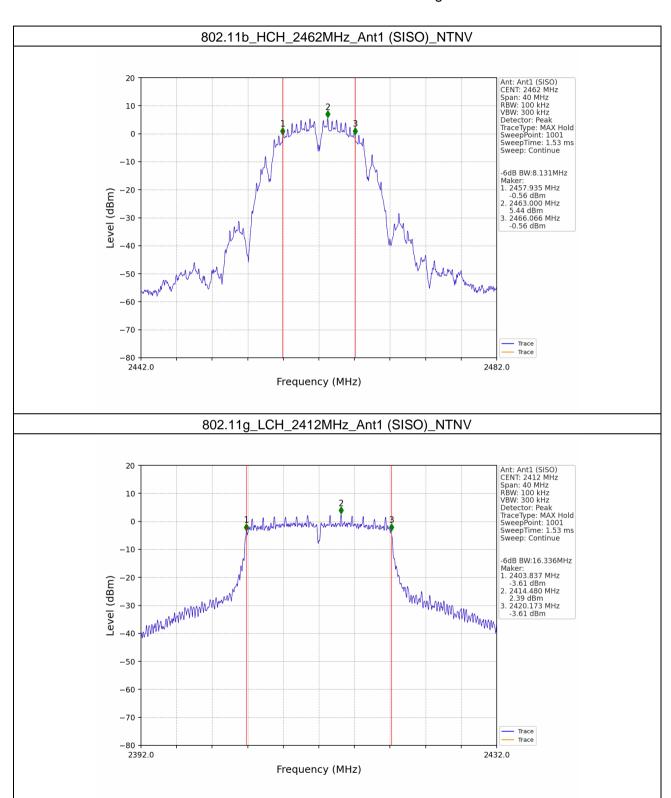
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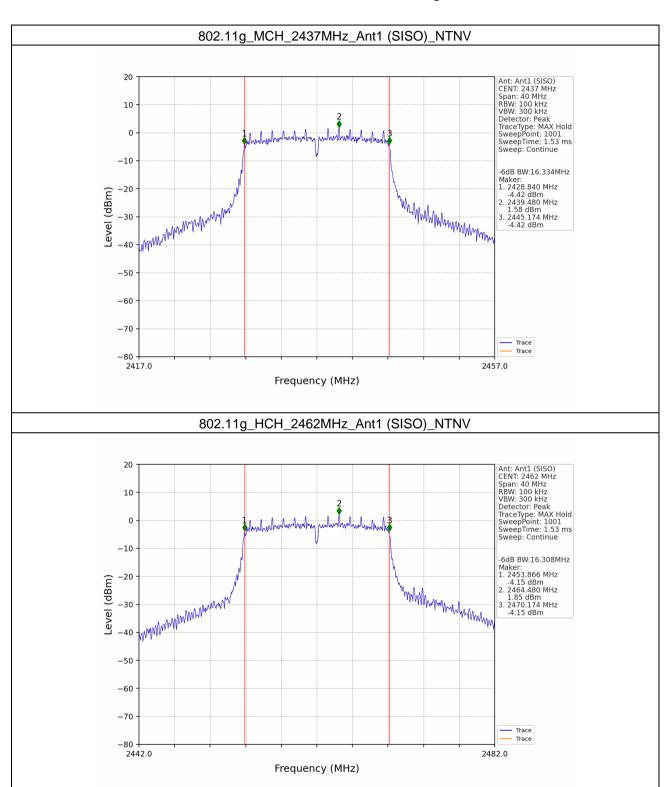
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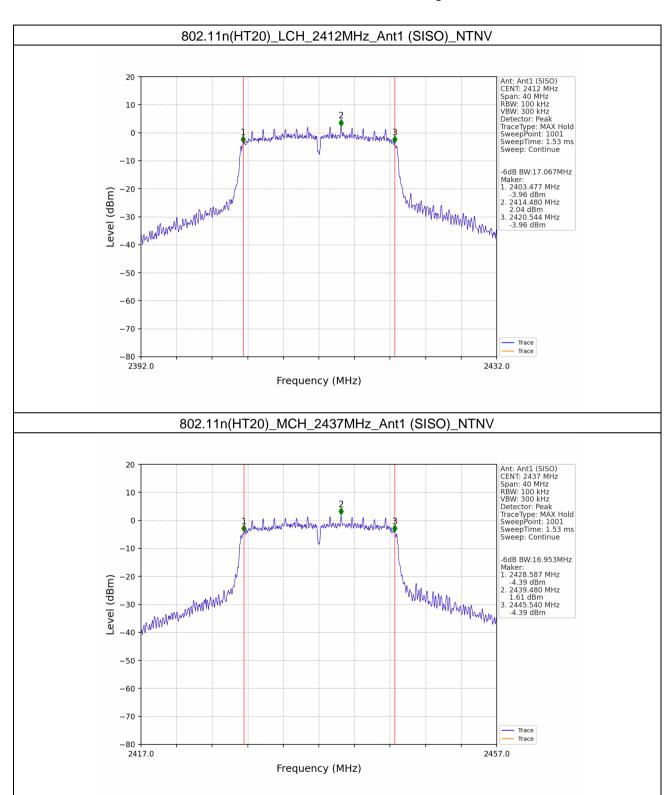
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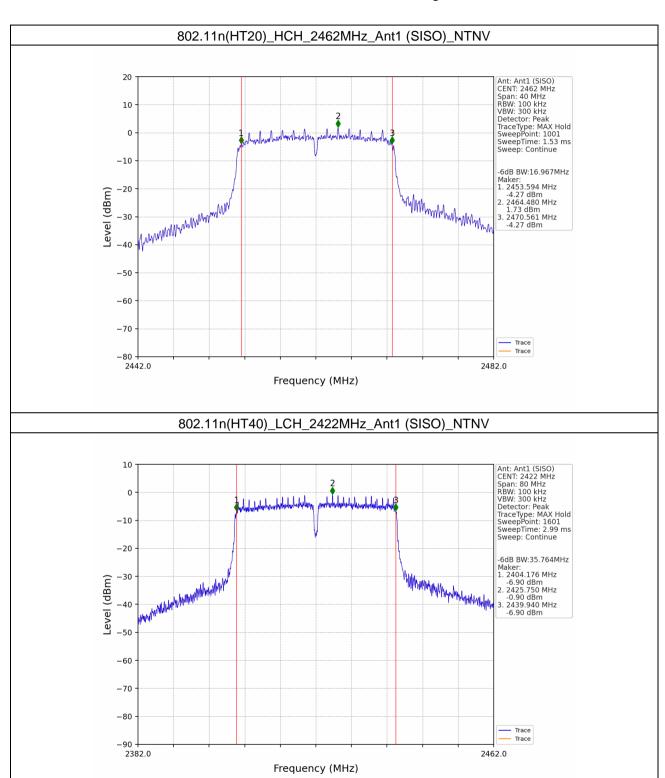
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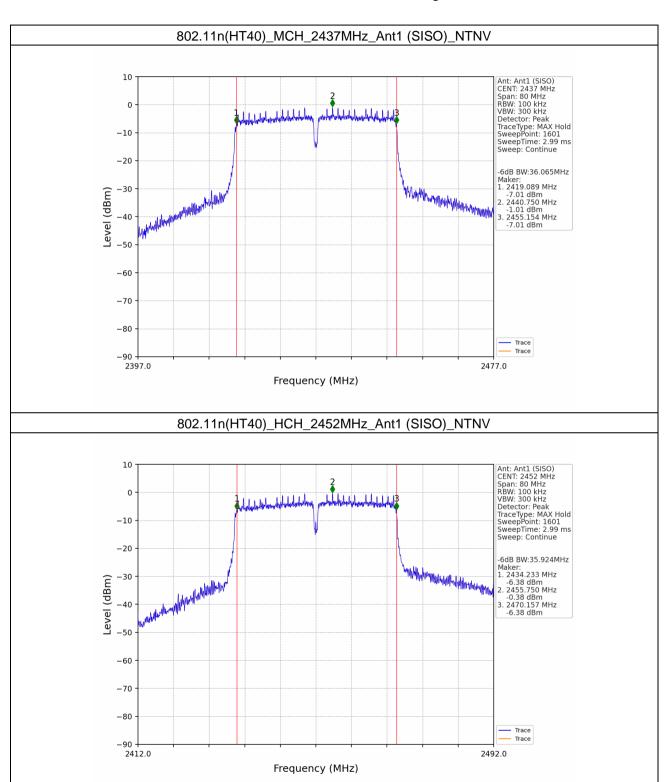
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Co (dE	Verdict		
	Type	(MHz)	ANT1	Limit		
		2412	13.89	<=30	Pass	
802.11b	SISO	2437	13.45	<=30	Pass	
		2462	13.61	<=30	Pass	
	SISO	2412	13.47	<=30	Pass	
802.11g		2437	12.70	<=30	Pass	
		2462	12.78	<=30	Pass	
		2412	13.33	<=30	Pass	
802.11n (HT20)	SISO	2437	12.98	<=30	Pass	
(11120)		2462	13.07	<=30	Pass	
		2422	13.20	<=30	Pass	
802.11n (HT40)	SISO	2437	13.37	<=30	Pass	
(11140)		2452	14.03	<=30	Pass	



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency (MHz)	Maximum PS	Vordiat	
Mode	Type		ANT1	Limit	Verdict
		2412	-5.24	<=8	Pass
802.11b	SISO	2437	-9.32	<=8	Pass
		2462	-5.48	<=8	Pass
	SISO	2412	-13.15	<=8	Pass
802.11g		2437	-14.22	<=8	Pass
		2462	-13.79	<=8	Pass
222.44	SISO	2412	-12.20	<=8	Pass
802.11n (HT20)		2437	-12.29	<=8	Pass
(11120)		2462	-12.44	<=8	Pass
000.44	SISO	2422	-15.91	<=8	Pass
802.11n (HT40)		2437	-16.25	<=8	Pass
(11140)		2452	-15.69	<=8	Pass



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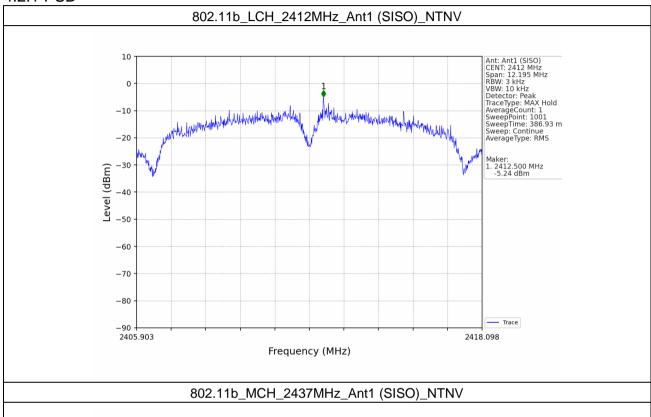
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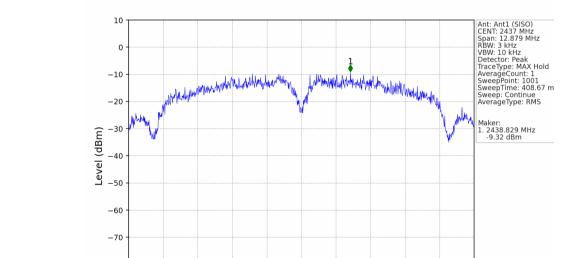
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4.2 Test Graph

4.2.1 PSD





Frequency (MHz)



-80

-90

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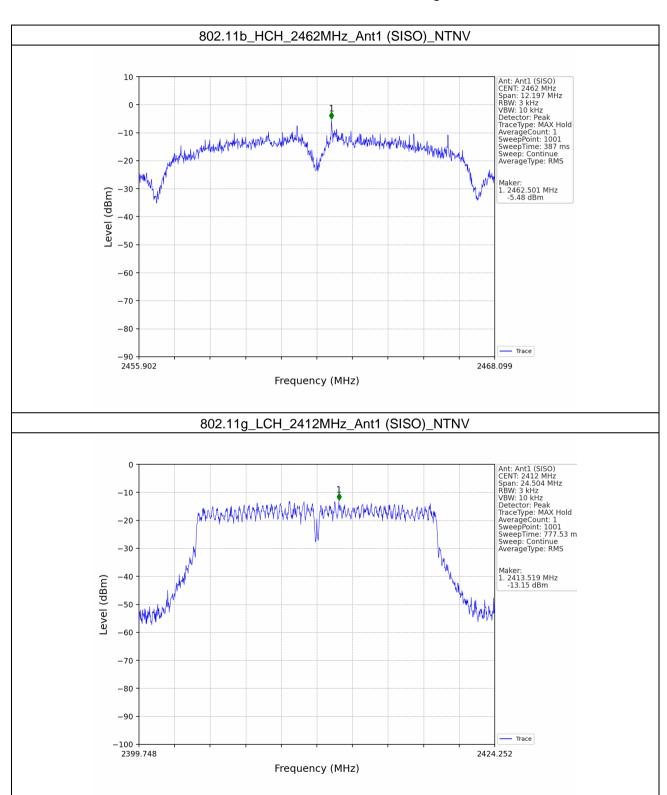
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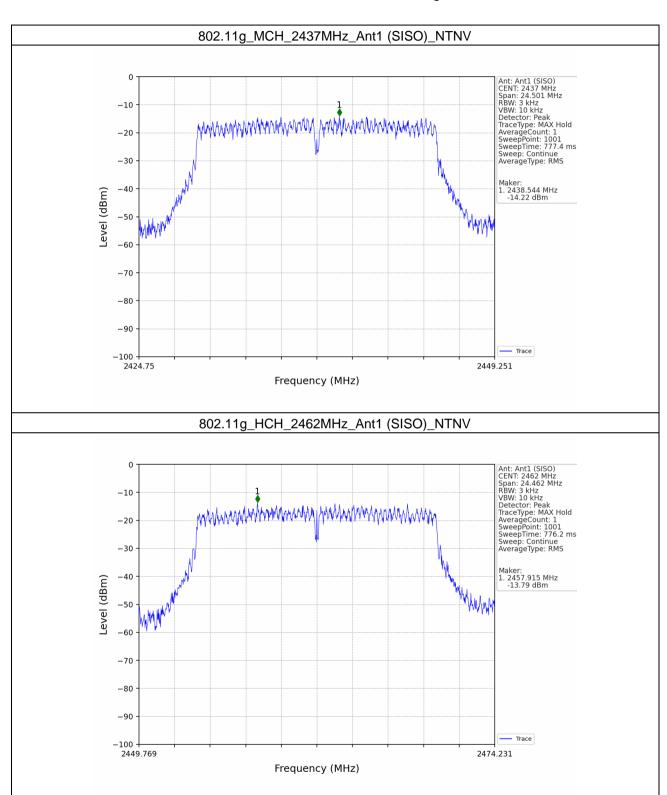
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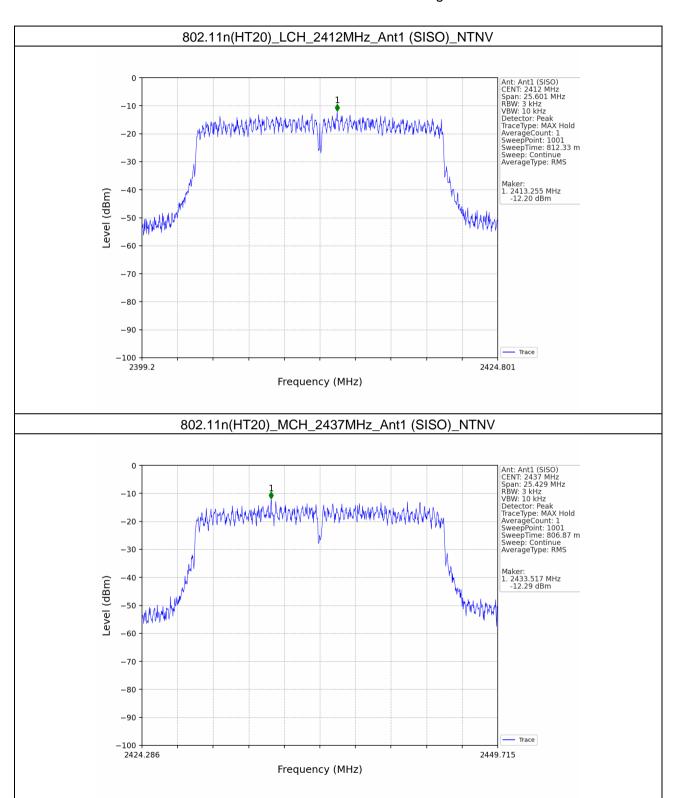
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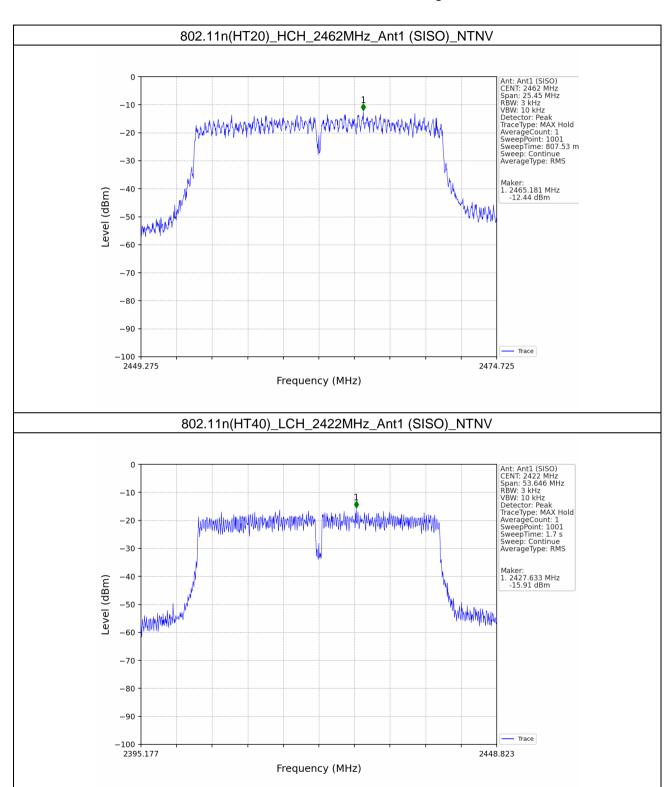
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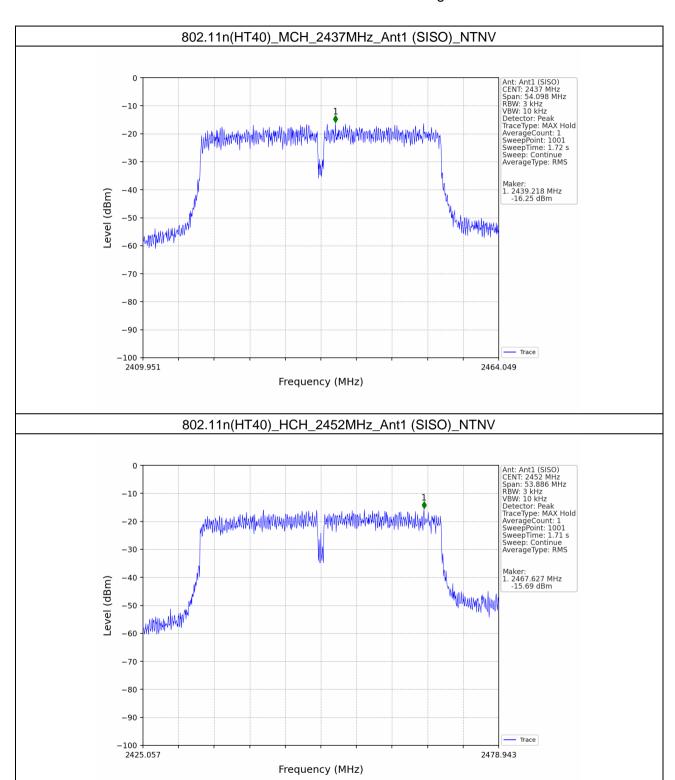
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2412	1	5.55
802.11b	SISO	2437	1	5.19
		2462	1	5.42
	SISO	2412	1	2.12
802.11g		2437	1	1.58
		2462	1	1.84
802.11n	SISO	2412	1	2.06
(HT20)		2437	1	1.48
		2462	1	1.45
	SISO	2422	1	-0.96
802.11n		2437	1	-1.08
(HT40)		2452	1	-0.42

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2412	1	5.55	-24.45	Pass
802.11b	SISO	2437	1	5.55	-24.45	Pass
		2462	1	5.55	-24.45	Pass
	SISO	2412	1	2.12	-27.88	Pass
802.11g		2437	1	2.12	-27.88	Pass
		2462	1	2.12	-27.88	Pass
	SISO	2412	1	2.06	-27.94	Pass
802.11n (HT20)		2437	1	2.06	-27.94	Pass
(1120)		2462	1	2.06	-27.94	Pass
802.11n (HT40)		2422	1	-0.42	-30.42	Pass
	SISO	2437	1	-0.42	-30.42	Pass
		2452	1	-0.42	-30.42	Pass



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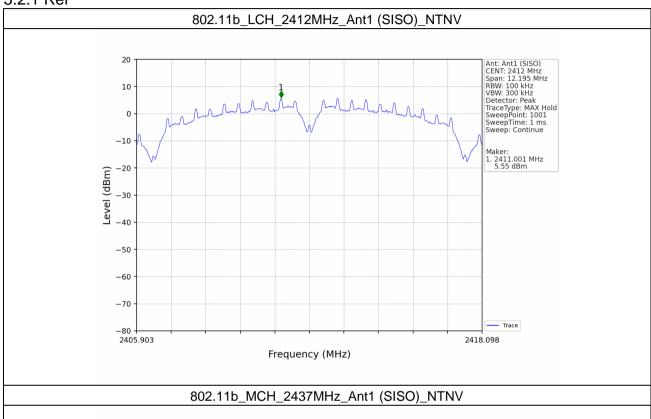
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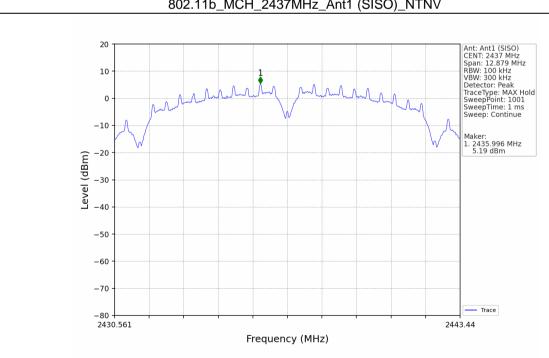
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5.2 Test Graph

5.2.1 Ref







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