

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230700244602

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TEST REPORT

Application No.: SZCR2307002446HS

Applicant: Shenzhen Hua Xin Information Technology Co., Ltd.

Address of Applicant: B101-B801, building 4,No.7 Industrial Area, Heshuikou Community, Matian

Street, Guangming District, Shenzhen, China

Manufacturer: Shenzhen Hua Xin Information Technology Co., Ltd.

Address of Manufacturer: B101-B801, building 4,No.7 Industrial Area, Heshuikou Community, Matian

Street, Guangming District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Charging base station

Model No.: X2000JZ, X2000PROJZ, X2000PROJZ-1, X2000PROJZ-2, G20JZ, R20JZ

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

actually tested and which were electrically identical.

FCC ID: 2AMYQ-2023X2000JZ

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

Date of Receipt: 2023-07-30

2023-09-24 to 2023-10-12 **Date of Test:**

Date of Issue: 2023-10-24

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-10-24		Original			

Authorized for issue by:		
	WinkeyWarg	
	Winkey Wang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

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

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

Declaration of EUT Family Grouping:

Model No.: X2000JZ, X2000PROJZ, X2000PROJZ-1, X2000PROJZ-2, G20JZ, R20JZ

Only the model X2000JZ was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference model No., color, appearance and with or without cleaning liquid tank and electrolyzed water function.



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General Information

Details of E.U.T. 4.1

Power supply:	Input:120V~, 60Hz, Output 19Vdc, 1A. Rated power:1000W
Cable(s):	base station AC input cable:180cm, unshielded
Cable Loss (for RF conducted test):	1.1dB
For 2.4G WIFI Module:	XR829
Operation Fraguency	802.11b/g/n(HT20): 2412MHz to 2462MHz;
Operation Frequency:	802.11n(HT40): 2422MHz to 2452MHz
Modulation 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 Charmers.	802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	3.0dBi

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

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

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



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Remark:

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

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

Abnormalities from Standard Conditions 4.7

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

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

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

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



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

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

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31	
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22	
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18	
Measurement Software	Measurement Software AUDIX e		N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09	
Pre-Amplifier Compliance Directions System Inc.		PAP-2640-50	SEM005-08	2023-03-20	2024-03-19	



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Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06	

Radiated Spurious Emissions Above 1GHz							
Equipment	oment Manufacturer		Inventory No.	Cal Date	Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19		

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27		
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22		



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Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.0dBi.

Antenna location: Refer to internal photos



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Radio Spectrum Matter Test Results 7

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

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

Limit:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1005 mbar

7.1.2 Test Mode Description

7.1.2 Test mode besomption						
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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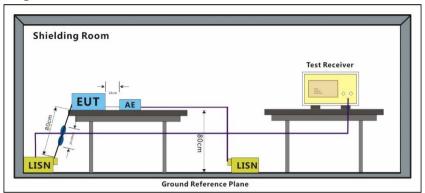
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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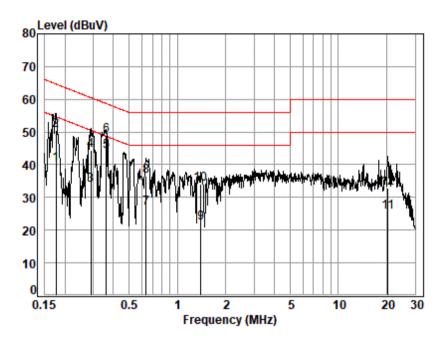


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Test Mode: 00: Line: Live line



: Shielding Room

Condition: Line Job No. : 02446HS

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1768	0.06	9.58	30.46	40.10	54.64	-14.54	Average
2	0.1768	0.06	9.58	40.94	50.58	64.64	-14.06	QP
3	0.2909	0.09	9.57	24.18	33.84	50.50	-16.66	Average
4	0.2909	0.09	9.57	34.90	44.56	60.50	-15.94	QP
5	0.3615	0.10	9.57	34.30	43.97	48.69	-4.72	Average
6	0.3615	0.10	9.57	39.35	49.02	58.69	-9.67	QP
7	0.6406	0.15	9.57	17.15	26.87	46.00	-19.13	Average
8	0.6406	0.15	9.57	26.85	36.57	56.00	-19.43	QP
9	1.4032	0.20	9.57	12.32	22.09	46.00	-23.91	Average
10	1.4032	0.20	9.57	24.42	34.19	56.00	-21.81	QP
11	20.3773	0.32	9.63	15.48	25.43	50.00	-24.57	Average
12	20.3773	0.32	9.63	22.77	32.72	60.00	-27.28	QP



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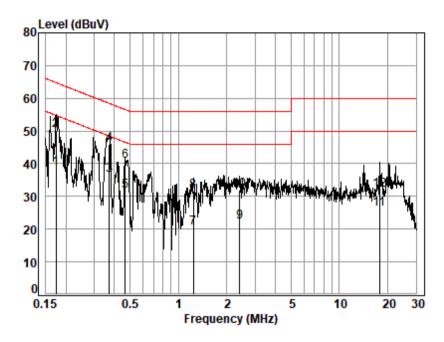


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Test Mode: 00: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02446HS

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1740	0.06	9.58	28.96	38.60	54.77	-16.17	Average
2	0.1740	0.06	9.58	40.55	50.19	64.77	-14.58	QP
3	0.3731	0.10	9.58	26.78	36.46	48.43	-11.97	Average
4	0.3731	0.10	9.58	36.24	45.92	58.43	-12.51	QP
5	0.4686	0.11	9.58	22.10	31.79	46.54	-14.75	Average
6	0.4686	0.11	9.58	30.93	40.62	56.54	-15.92	QP
7	1.2357	0.19	9.58	10.57	20.34	46.00	-25.66	Average
8	1.2357	0.19	9.58	21.84	31.61	56.00	-24.39	QP
9	2.3962	0.23	9.58	12.34	22.15	46.00	-23.85	Average
10	2.3962	0.23	9.58	22.20	32.01	56.00	-23.99	QP
11	17.7549	0.31	9.68	16.04	26.03	50.00	-23.97	Average
12	17.7549	0.31	9.68	21.99	31.98	60.00	-28.02	QP

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7.2 Conducted Peak Output Power

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

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 48.4 % RH Atmospheric Pressure: 1005 mbar

7.2.2 Test Mode Description

1.2.2 163t W		our parent
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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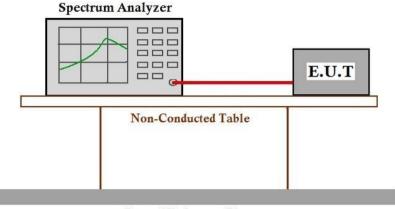
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

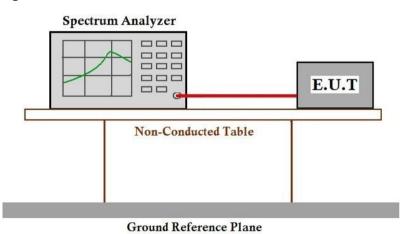
Operating Environment:

Temperature: 23.7 °C Humidity: 48.4 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

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

Limit:

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

7.4.1 E.U.T. Operation

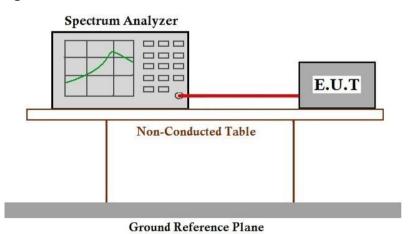
Operating Environment:

Temperature: 23.7 °C Humidity: 48.4 % RH Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

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

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 48.4 % RH Atmospheric Pressure: 1005 mbar

7.5.2 Test Mode Description

		T .
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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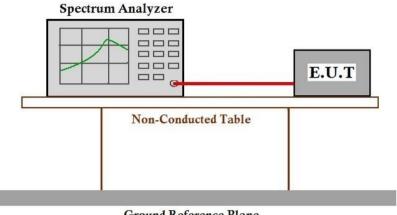
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

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

Limit:

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 48.4 % RH Atmospheric Pressure: 1005 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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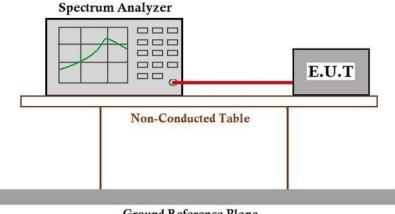
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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Radiated Emissions which fall in the restricted bands

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

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 51.4 % RH Atmospheric Pressure: 1005 mbar

7.7.2 Test Mode Description

		Print
Pre-scan / Final test	Mode Code	Description
Final test	00	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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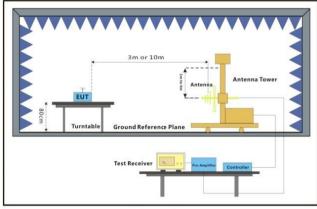
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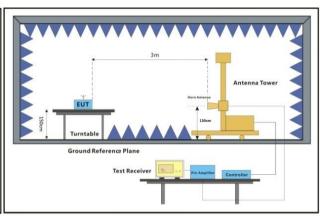


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7.7.3 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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7.7.4 Measurement Procedure and Data

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



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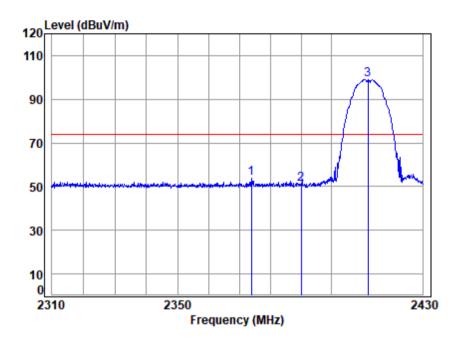


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq		Ant Factor						Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2373.80	4.23	28.70	39.21	59.93	53.65	74.00	-20.35	peak	
2	2390.00	4.25	28.76	39.22	57.12	50.91	74.00	-23.09	peak	
3	2412.00	4.27	28.87	39.23	105.07	98.98	74.00	24.98	peak	



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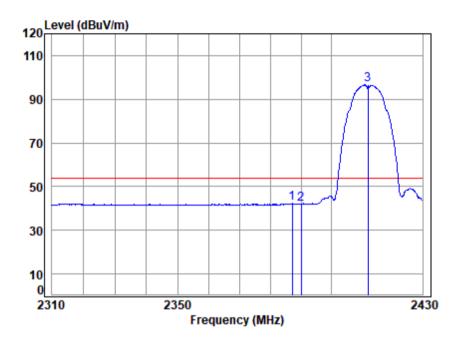


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.19	4.25	28.75	39.22	48.49	42.27	54.00	-11.73	Average
2	2390.00	4.25	28.76	39.22	48.37	42.16	54.00	-11.84	Average
3	2412.00	4.27	28.87	39.23	102.60	96.51	54.00	42.51	Average



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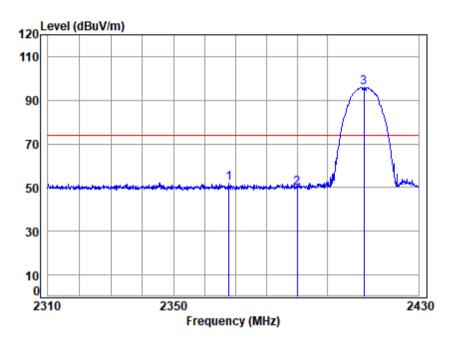
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq				Read Level				Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2367.92	4.23	28.67	39.21	58.47	52.16	74.00	-21.84	Peak	
2	2390.00	4.25	28.76	39.22	56.09	49.88	74.00	-24.12	Peak	
3	2412.00	4.27	28.87	39.23	101.95	95.86	74.00	21.86	Peak	



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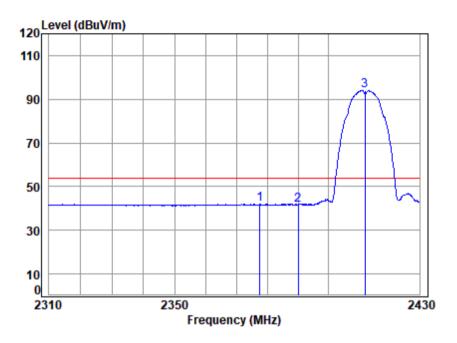
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.53	4.24	28.71	39.21	48.27	42.01	54.00	-11.99	Average
2	2390.00	4.25	28.76	39.22	47.90	41.69	54.00	-12.31	Average
3	2412.00	4.27	28.87	39.23	100.04	93.95	54.00	39.95	Average



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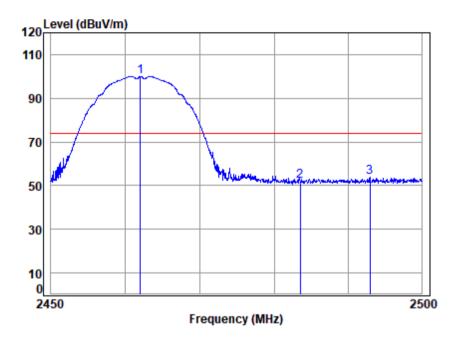


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

Page: 32 of 138

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446AT

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

ote	. 2.40	MILI .	LID							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2462.00	4.32	29.17	39.26	105.73	99.96	74.00	25.96	peak	
2	2483.50	4.34	29.30	39.27	57.44	51.81	74.00	-22.19	peak	
3	2492.99	4.35	29.36	39.27	59.20	53.64	74.00	-20.36	peak	



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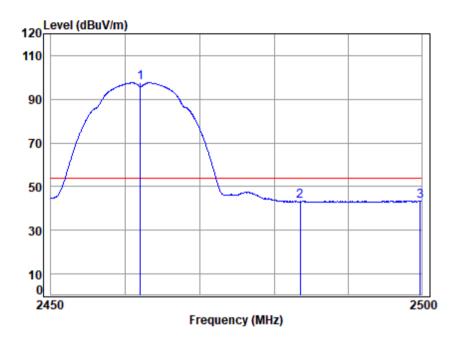


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq		Ant Factor						Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2462.00	4.32	29.17	39.26	103.26	97.49	54.00	43.49	Average	
2	2483.50	4.34	29.30	39.27	48.80	43.17	54.00	-10.83	Average	
3	2499.85	4.36	29.40	39.28	48.95	43.43	54.00	-10.57	Average	



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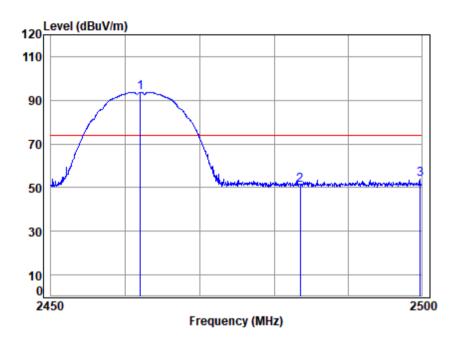
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	2462.00	4.32	29.17	39.26	99.53	93.76	74.00	19.76	Peak
2	2483.50	4.34	29.30	39.27	56.63	51.00	74.00	-23.00	Peak
3	2499.80	4.36	29.40	39.28	59.27	53.75	74.00	-20.25	Peak



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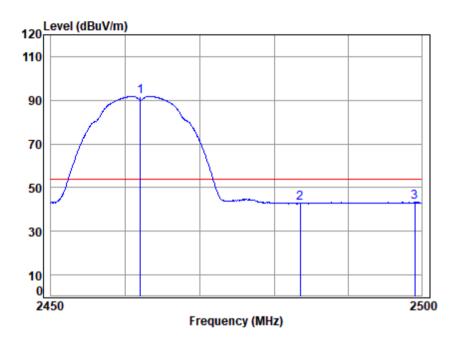
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	97.60	91.83	54.00	37.83	Average
2	2483.50	4.34	29.30	39.27	48.55	42.92	54.00	-11.08	Average
3	2499.09	4.36	29.39	39.27	48.76	43.24	54.00	-10.76	Average



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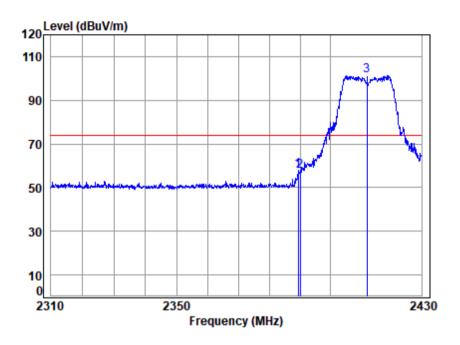


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq		Ant Factor						Remark	
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB		
1	2389.36	4.25	28.76	39.22	64.23	58.02	74.00	-15.98	peak	
2	2390.00	4.25	28.76	39.22	63.75	57.54	74.00	-16.46	peak	
3	2412.00	4.27	28.87	39.23	107.40	101.31	74.00	27.31	peak	



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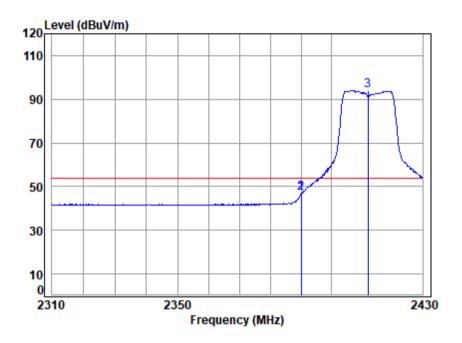


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.97	4.25	28.76	39.22	53.03	46.82	54.00	-7.18	Average
2390.00	4.25	28.76	39.22	53.03	46.82	54.00	-7.18	Average
2412.00	4.27	28.87	39.23	100.04	93.95	54.00	39.95	Average
	MHz 2389.97 2390.00	Freq Loss MHz dB 2389.97 4.25 2390.00 4.25	Freq Loss Factor MHz dB dB/m 2389.97 4.25 28.76 2390.00 4.25 28.76	Freq Loss Factor Factor MHz dB dB/m dB 2389.97 4.25 28.76 39.22 2390.00 4.25 28.76 39.22	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2389.97 4.25 28.76 39.22 53.03 2390.00 4.25 28.76 39.22 53.03	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2389.97 4.25 28.76 39.22 53.03 46.82 2390.00 4.25 28.76 39.22 53.03 46.82	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 2389.97 4.25 28.76 39.22 53.03 46.82 54.00 2390.00 4.25 28.76 39.22 53.03 46.82 54.00	2389.97



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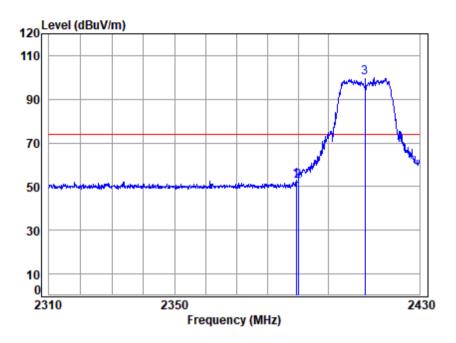
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.36	4.25	28.76	39.22	59.05	52.84	74.00	-21.16	Peak
2	2390.00	4.25	28.76	39.22	58.61	52.40	74.00	-21.60	Peak
3	2412.00	4.27	28.87	39.23	106.16	100.07	74.00	26.07	Peak



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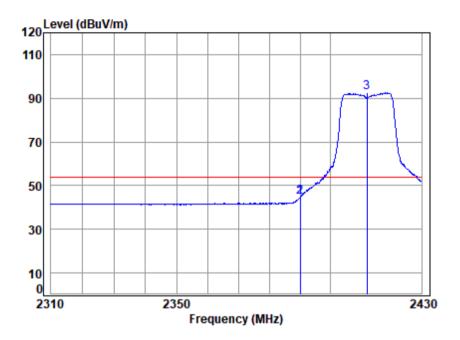
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.97	4.25	28.76	39.22	50.77	44.56	54.00	-9.44	Average
2	2390.00	4.25	28.76	39.22	50.77	44.56	54.00	-9.44	Average
3	2412.00	4.27	28.87	39.23	98.51	92.42	54.00	38.42	Average



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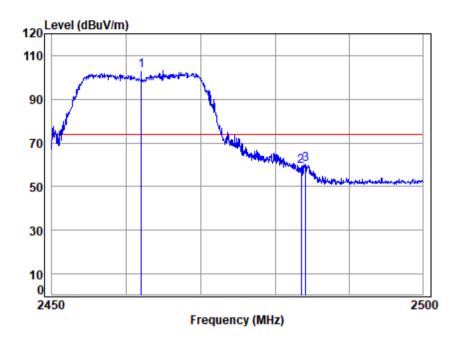


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.00	4.32	29.17	39.26	108.86	103.09	74.00	29.09	peak
2483.50	4.34	29.30	39.27	65.01	59.38	74.00	-14.62	peak
2484.14	4.34	29.31	39.27	65.62	60.00	74.00	-14.00	peak
	MHz 2462.00 2483.50	Freq Loss MHz dB 2462.00 4.32 2483.50 4.34	Freq Loss Factor MHz dB dB/m 2462.00 4.32 29.17 2483.50 4.34 29.30	Freq Loss Factor Factor MHz dB dB/m dB 2462.00 4.32 29.17 39.26 2483.50 4.34 29.30 39.27	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.00 4.32 29.17 39.26 108.86 2483.50 4.34 29.30 39.27 65.01	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.00 4.32 29.17 39.26 108.86 103.09 2483.50 4.34 29.30 39.27 65.01 59.38	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2462.00 4.32 29.17 39.26 108.86 103.09 74.00 2483.50 4.34 29.30 39.27 65.01 59.38 74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 2462.00 4.32 29.17 39.26 108.86 103.09 74.00 29.09 2483.50 4.34 29.30 39.27 65.01 59.38 74.00 -14.62 2484.14 4.34 29.31 39.27 65.62 60.00 74.00 -14.00



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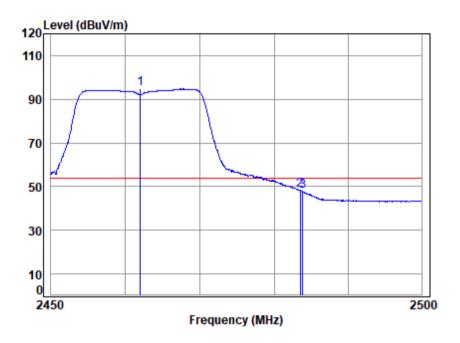


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	100.51	94.74	54.00	40.74	Average
2	2483.50	4.34	29.30	39.27	53.89	48.26	54.00	-5.74	Average
3	2483.84	4.34	29.30	39.27	53.39	47.76	54.00	-6.24	Average



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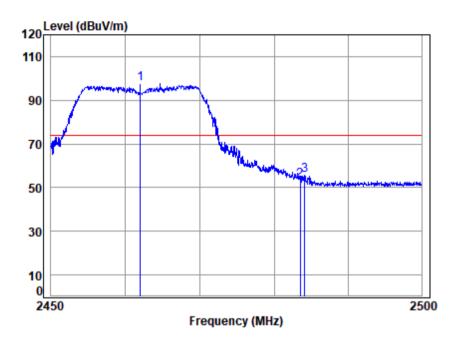
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq				Read Level				Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2462.00	4.32	29.17	39.26	103.59	97.82	74.00	23.82	Peak	
2	2483.50	4.34	29.30	39.27	59.04	53.41	74.00	-20.59	Peak	
3	2484.14	4.34	29.31	39.27	61.45	55.83	74.00	-18.17	Peak	



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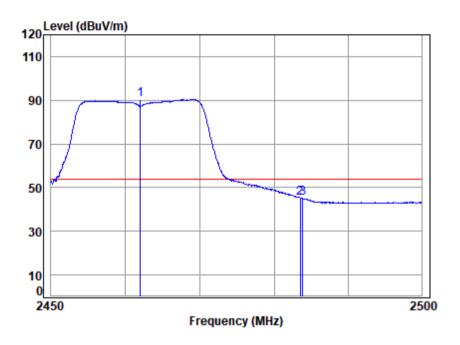
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	95.97	90.20	54.00	36.20	Average
2	2483.50	4.34	29.30	39.27	50.93	45.30	54.00	-8.70	Average
3	2483.89	4.34	29.30	39.27	50.62	44.99	54.00	-9.01	Average



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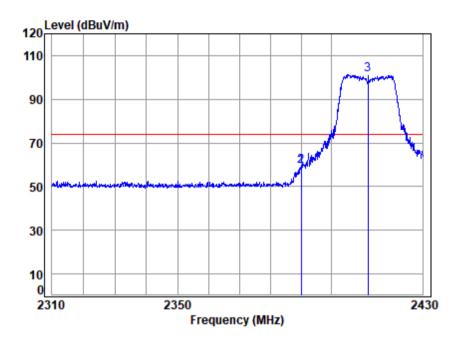


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq					Level			Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.97	4.25	28.76	39.22	65.41	59.20	74.00	-14.80	peak
2	2390.00	4.25	28.76	39.22	65.41	59.20	74.00	-14.80	peak
3	2412.00	4.27	28.87	39.23	107.50	101.41	74.00	27.41	peak



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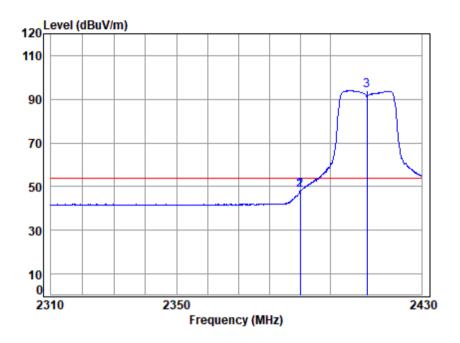


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.97	4.25	28.76	39.22	54.38	48.17	54.00	-5.83	Average
2	2390.00	4.25	28.76	39.22	54.38	48.17	54.00	-5.83	Average
3	2412.00	4.27	28.87	39.23	100.09	94.00	54.00	40.00	Average



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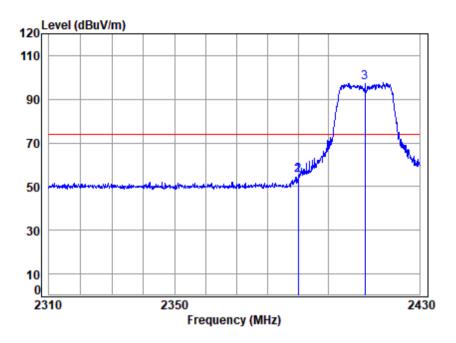
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.97	4.25	28.76	39.22	61.38	55.17	74.00	-18.83	Peak
2	2390.00	4.25	28.76	39.22	61.38	55.17	74.00	-18.83	Peak
3	2412.00	4.27	28.87	39.23	103.53	97.44	74.00	23.44	Peak



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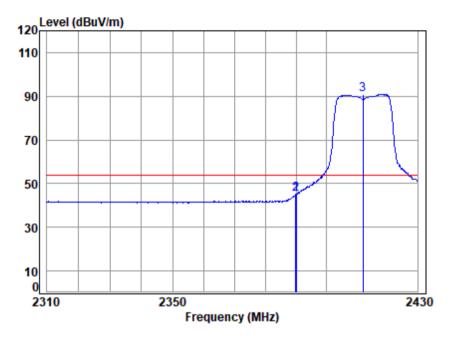
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.85	4.25	28.76	39.22	51.51	45.30	54.00	-8.70	Average
2	2390.00	4.25	28.76	39.22	51.51	45.30	54.00	-8.70	Average
3	2412.00	4.27	28.87	39.23	96.88	90.79	54.00	36.79	Average



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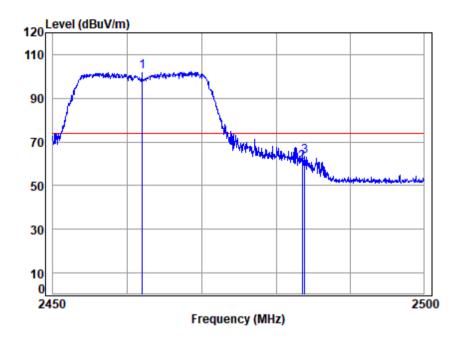


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	107.90	102.13	74.00	28.13	peak
2	2483.50	4.34	29.30	39.27	66.45	60.82	74.00	-13.18	peak
3	2483.84	4.34	29.30	39.27	69.05	63.42	74.00	-10.58	peak



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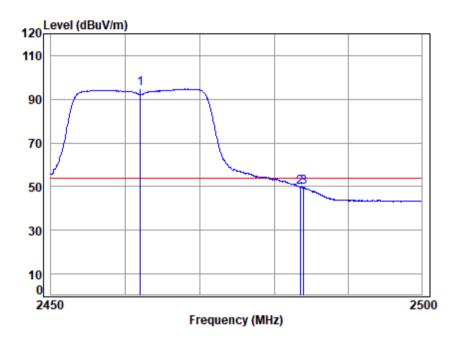


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq						Limit Line		Remark	
-	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		-
1	2462.00	4.32	29.17	39.26	100.47	94.70	54.00	40.70	Average	
2	2483.50	4.34	29.30	39.27	55.51	49.88	54.00	-4.12	Average	
3	2483.99	4.34	29.30	39.27	55.26	49.63	54.00	-4.37	Average	



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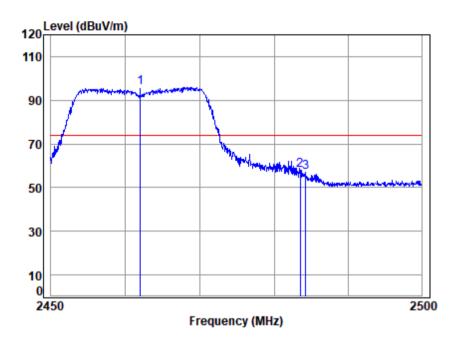
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq				Read Level				Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	101.73	95.96	74.00	21.96	Peak
2	2483.50	4.34	29.30	39.27	63.36	57.73	74.00	-16.27	Peak
3	2484.29	4.34	29.31	39.27	62.58	56.96	74.00	-17.04	Peak



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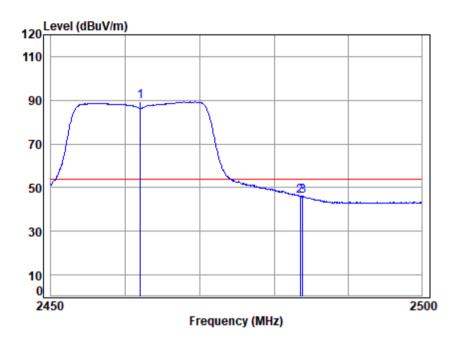
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.00	4.32	29.17	39.26	95.02	89.25	54.00	35.25	Average
2	2483.50	4.34	29.30	39.27	51.83	46.20	54.00	-7.80	Average
3	2483.89	4.34	29.30	39.27	51.66	46.03	54.00	-7.97	Average



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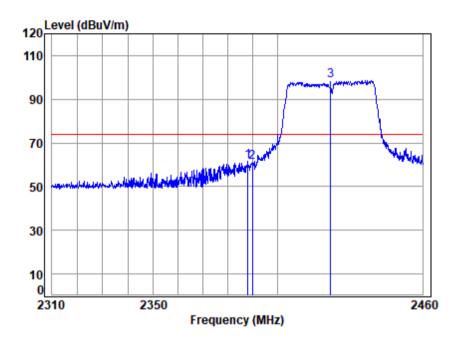


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.17	4.25	28.75	39.22	67.64	61.42	74.00	-12.58	peak
2	2390.00	4.25	28.76	39.22	67.26	61.05	74.00	-12.95	peak
3	2422.00	4.28	28.93	39.24	104.74	98.71	74.00	24.71	peak



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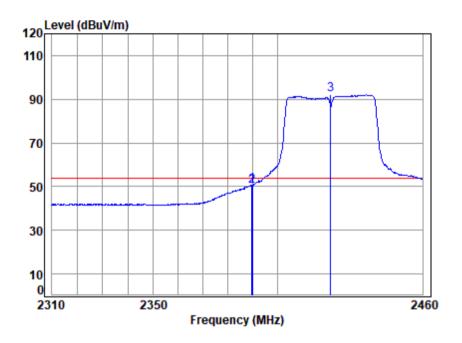


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.83	4.25	28.76	39.22	56.87	50.66	54.00	-3.34	Average
2	2390.00	4.25	28.76	39.22	56.62	50.41	54.00	-3.59	Average
3	2422.00	4.28	28.93	39.24	98.09	92.06	54.00	38.06	Average



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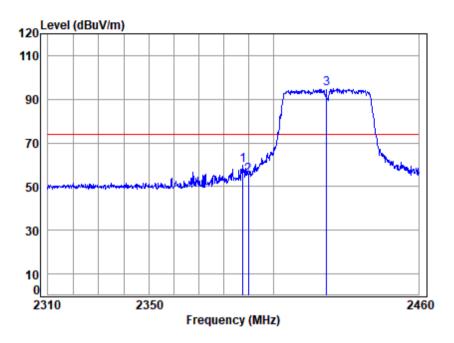
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq				Read Level				Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.72	4.25	28.75	39.22	65.95	59.73	74.00	-14.27	Peak
2	2390.00	4.25	28.76	39.22	61.27	55.06	74.00	-18.94	Peak
3	2422.00	4.28	28.93	39.24	100.90	94.87	74.00	20.87	Peak



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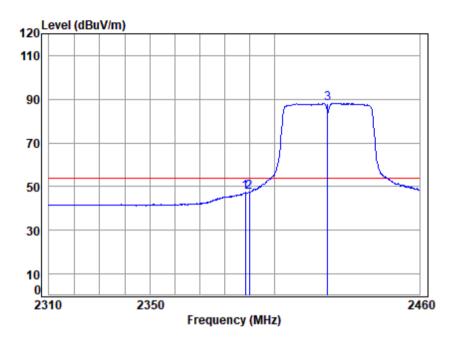
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.32	4.25	28.75	39.22	53.67	47.45	54.00	-6.55	Average
2	2390.00	4.25	28.76	39.22	53.54	47.33	54.00	-6.67	Average
3	2422.00	4.28	28.93	39.24	94.12	88.09	54.00	34.09	Average



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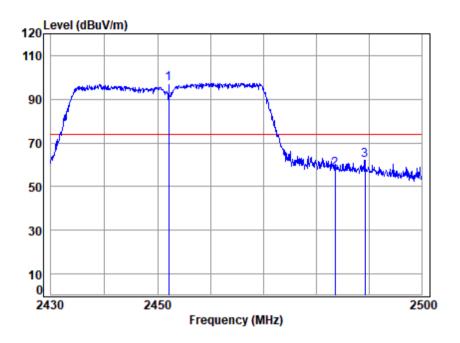


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2452.00	4.31	29.11	39.25	103.18	97.35	74.00	23.35	peak	
2	2483.50	4.34	29.30	39.27	63.75	58.12	74.00	-15.88	peak	
3	2489.16	4.35	29.34	39.27	67.82	62.24	74.00	-11.76	peak	



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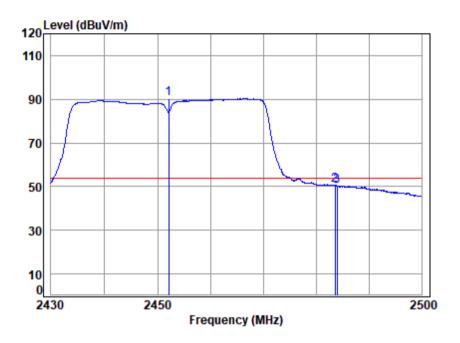


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446AT

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

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.00	4.31	29.11	39.25	96.04	90.21	54.00	36.21	Average
2	2483.50	4.34	29.30	39.27	56.20	50.57	54.00	-3.43	Average
3	2483.87	4.34	29.30	39.27	55.93	50.30	54.00	-3.70	Average



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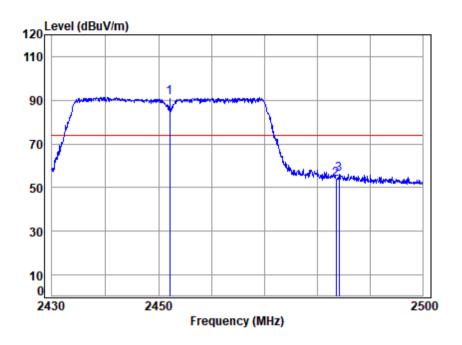


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.00	4.31	29.11	39.25	97.21	91.38	74.00	17.38	Peak
2	2483.50	4.34	29.30	39.27	59.65	54.02	74.00	-19.98	Peak
3	2484.08	4.34	29.31	39.27	61.56	55.94	74.00	-18.06	Peak



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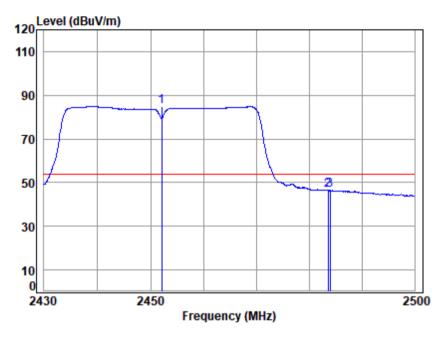


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446AT

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

Freq								Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2452.00	4.31	29.11	39.25	90.68	84.85	54.00	30.85	Average
2483.50	4.34	29.30	39.27	52.16	46.53	54.00	-7.47	Average
2483.87	4.34	29.30	39.27	51.98	46.35	54.00	-7.65	Average
	MHz 2452.00 2483.50	Freq Loss MHz dB 2452.00 4.31 2483.50 4.34	Freq Loss Factor MHz dB dB/m 2452.00 4.31 29.11 2483.50 4.34 29.30	Freq Loss Factor Factor MHz dB dB/m dB 2452.00 4.31 29.11 39.25 2483.50 4.34 29.30 39.27	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2452.00 4.31 29.11 39.25 90.68 2483.50 4.34 29.30 39.27 52.16	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2452.00 4.31 29.11 39.25 90.68 84.85 2483.50 4.34 29.30 39.27 52.16 46.53	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2452.00 4.31 29.11 39.25 90.68 84.85 54.00 2483.50 4.34 29.30 39.27 52.16 46.53 54.00	



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7.8 Radiated Spurious Emissions Below 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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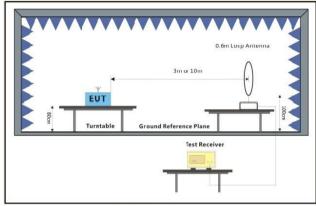


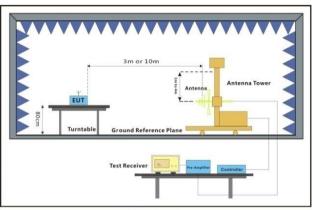
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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.8.4 Measurement Procedure and Data

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



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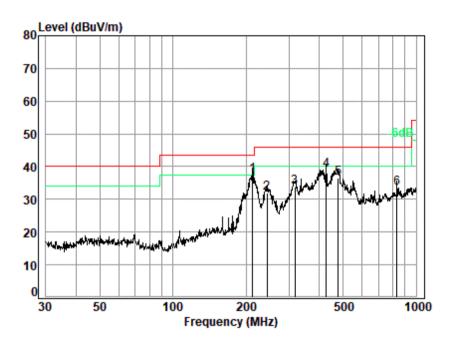
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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02446HS

Mode : 00

		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	213.02	0.74	15.64	25.32	46.44	37.50	43.50	-6.00	QP
2	243.38	0.84	16.54	25.23	39.81	31.96	46.00	-14.04	QP
3	317.70	1.21	19.17	25.12	38.47	33.73	46.00	-12.27	QP
4	426.52	1.57	21.15	25.20	41.29	38.81	46.00	-7.19	QP
5	478.85	1.45	22.12	25.23	38.05	36.39	46.00	-9.61	QP
6	833.32								_



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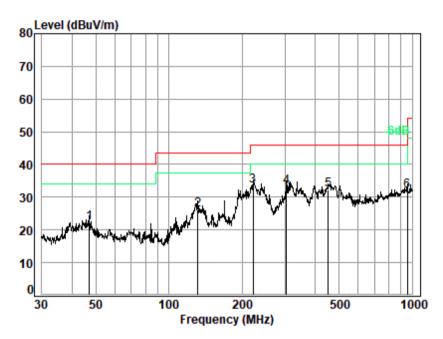
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Test Mode: 00; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 02446HS

Mode : 00

		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	46.99	0.20	17.27	25.87	30.64	22.24	40.00	-17.76	QP
2	131.30	0.98	16.67	25.63	34.02	26.04	43.50	-17.46	QP
3	221.39	0.77	15.88	25.29	42.03	33.39	46.00	-12.61	QP
4	304.61	1.08	18.52	25.10	38.55	33.05	46.00	-12.95	QP
5	451.14	1.51	21.69	25.22	34.18	32.16	46.00	-13.84	QP
6	955.44	2.26	29.35	26.30	26.74	32.05	46.00	-13.95	QP



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7.9 Radiated Spurious Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

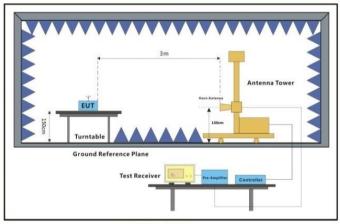
Operating Environment:

Temperature: Atmospheric Pressure: 1000 mbar 20.4 °C Humidity: 51.3 % RH

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

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



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中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

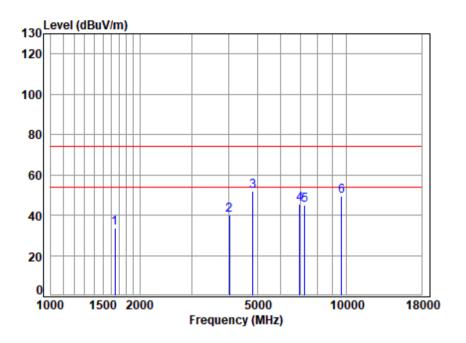


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS

Mode : 2412 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.78	3.43	26.70	38.83	42.23	33.53	74.00	-40.47	peak
2	4027.55	6.31	32.81	40.32	41.28	40.08	74.00	-33.92	peak
3	4824.00	7.06	33.90	40.89	51.68	51.75	74.00	-22.25	peak
4	6954.85	8.31	35.71	40.63	42.04	45.43	74.00	-28.57	peak
5	7236.00	8.54	35.80	40.45	41.23	45.12	74.00	-28.88	peak
6	9648.00	10.41	37.10	36.98	38.81	49.34	74.00	-24.66	peak



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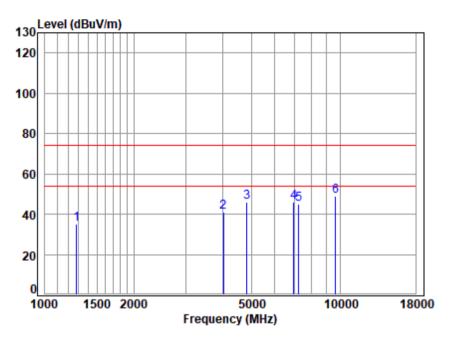


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2412 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.49	2.93	24.61	38.61	46.31	35.24	74.00	-38.76	peak
2	4027.55	6.31	32.81	40.32	41.98	40.78	74.00	-33.22	peak
3	4824.00	7.06	33.90	40.89	46.09	46.16	74.00	-27.84	peak
4	6954.85	8.31	35.71	40.63	42.73	46.12	74.00	-27.88	peak
5	7236.00	8.54	35.80	40.45	40.87	44.76	74.00	-29.24	peak
6	9648.00	10.41	37.10	36.98	38.47	49.00	74.00	-25.00	peak



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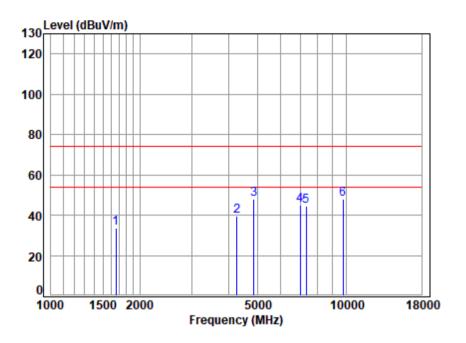


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.34	3.44	26.72	38.84	42.29	33.61	74.00	-40.39	peak
2	4267.24	6.55	33.60	40.50	39.96	39.61	74.00	-34.39	peak
3	4874.00	7.10	34.05	40.92	47.74	47.97	74.00	-26.03	peak
4	6995.17	8.32	35.79	40.60	41.56	45.07	74.00	-28.93	peak
5	7311.00	8.61	35.90	40.40	40.54	44.65	74.00	-29.35	peak
6	9748.00	10.45	37.20	36.81	37.23	48.07	74.00	-25.93	peak



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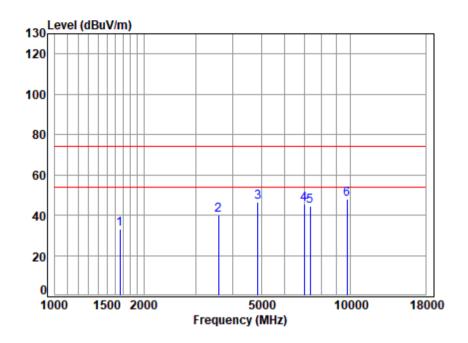


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.34	3.44	26.72	38.84	42.03	33.35	74.00	-40.65	peak
2	3587.82	5.72	31.88	40.00	42.43	40.03	74.00	-33.97	peak
3	4874.00	7.10	34.05	40.92	46.27	46.50	74.00	-27.50	peak
4	6974.98	8.32	35.75	40.62	42.25	45.70	74.00	-28.30	peak
5	7311.00	8.61	35.90	40.40	40.32	44.43	74.00	-29.57	peak
6	9748.00	10.45	37.20	36.81	37.11	47.95	74.00	-26.05	peak



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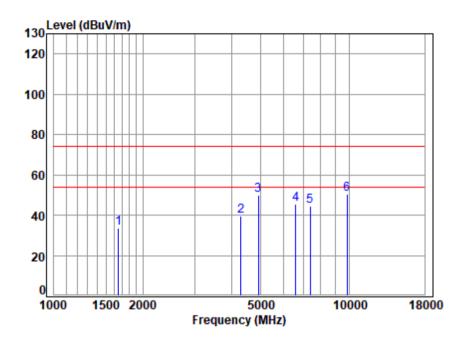


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS

Mode : 2462 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.55	3.43	26.71	38.84	42.24	33.54	74.00	-40.46	peak
2	4304.40	6.59	33.60	40.53	39.99	39.65	74.00	-34.35	peak
3	4924.00	7.15	34.15	40.95	49.74	50.09	74.00	-23.91	peak
4	6602.27	8.26	35.60	40.90	42.58	45.54	74.00	-28.46	peak
5	7386.00	8.68	35.90	40.36	40.30	44.52	74.00	-29.48	peak
6	9848.00	10.49	37.30	36.65	39.27	50.41	74.00	-23.59	peak



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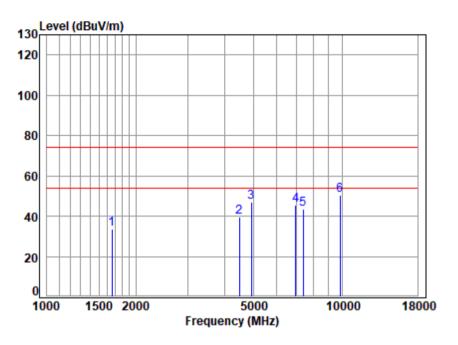


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2462 TX RSE : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.14	3.45	26.73	38.84	42.16	33.50	74.00	-40.50	peak
2	4482.15	6.75	33.50	40.66	40.17	39.76	74.00	-34.24	peak
3	4924.00	7.15	34.15	40.95	46.39	46.74	74.00	-27.26	peak
4	6954.85	8.31	35.71	40.63	41.85	45.24	74.00	-28.76	peak
5	7386.00	8.68	35.90	40.36	39.51	43.73	74.00	-30.27	peak
6	9848.00	10.49	37.30	36.65	39.13	50.27	74.00	-23.73	peak



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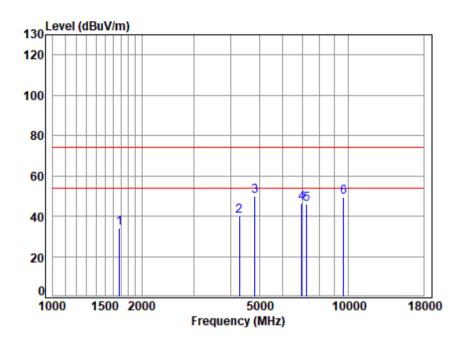


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2412 TX RSE

: 2.4G WIFI 11G Note

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1677.62	3.46	26.76	38.85	42.51	33.88	74.00	-40.12	peak
2	4291.98	6.57	33.60	40.52	40.40	40.05	74.00	-33.95	peak
3	4824.00	7.06	33.90	40.89	50.08	50.15	74.00	-23.85	peak
4	6954.85	8.31	35.71	40.63	43.08	46.47	74.00	-27.53	peak
5	7236.00	8.54	35.80	40.45	42.05	45.94	74.00	-28.06	peak
6	9648.00	10.41	37.10	36.98	38.74	49.27	74.00	-24.73	peak



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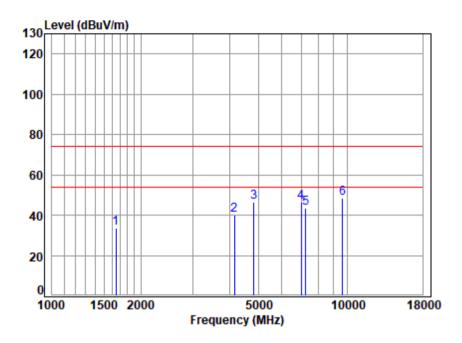


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2412 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.78	3.43	26.70	38.83	42.31	33.61	74.00	-40.39	peak
2	4157.66	6.44	33.15	40.42	40.71	39.88	74.00	-34.12	peak
3	4824.00	7.06	33.90	40.89	46.24	46.31	74.00	-27.69	peak
4	6995.17	8.32	35.79	40.60	42.92	46.43	74.00	-27.57	peak
5	7236.00	8.54	35.80	40.45	39.44	43.33	74.00	-30.67	peak
6	9648.00	10.41	37.10	36.98	38.15	48.68	74.00	-25.32	peak



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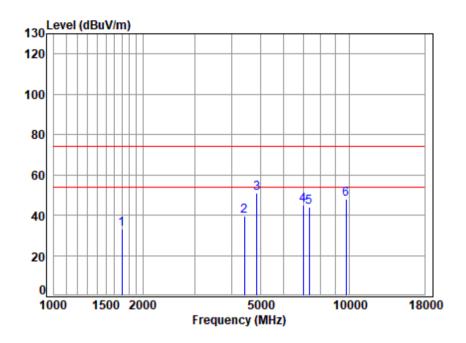


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.13	3.49	26.79	38.86	41.49	32.91	74.00	-41.09	peak
2	4417.84	6.69	33.50	40.61	40.02	39.60	74.00	-34.40	peak
3	4874.00	7.10	34.05	40.92	50.81	51.04	74.00	-22.96	peak
4	6974.98	8.32	35.75	40.62	41.62	45.07	74.00	-28.93	peak
5	7311.00	8.61	35.90	40.40	40.04	44.15	74.00	-29.85	peak
6	9748.00	10.45	37.20	36.81	37.27	48.11	74.00	-25.89	peak



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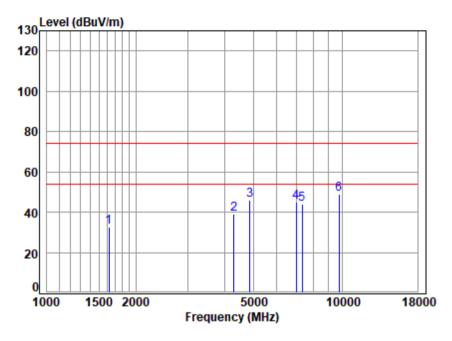


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.12	3.40	26.60	38.82	41.64	32.82	74.00	-41.18	peak
2	4304.40	6.59	33.60	40.53	39.21	38.87	74.00	-35.13	peak
3	4874.00	7.10	34.05	40.92	45.89	46.12	74.00	-27.88	peak
4	6974.98	8.32	35.75	40.62	41.61	45.06	74.00	-28.94	peak
5	7311.00	8.61	35.90	40.40	39.67	43.78	74.00	-30.22	peak
6	9748.00	10.45	37.20	36.81	38.09	48.93	74.00	-25.07	peak



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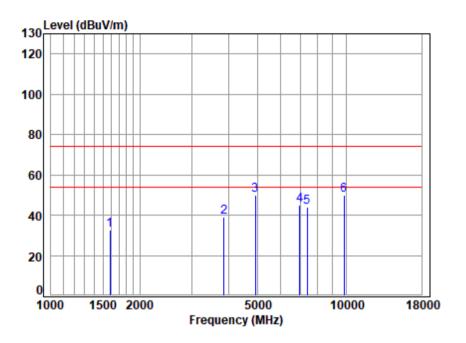


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2462 TX RSE Note : 2.4G WIFI 11G

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark Freq

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.98	3.35	26.36	38.80	41.69	32.60	74.00	-41.40 peak	
2	3856.67	6.09	32.69	40.20	40.54	39.12	74.00	-34.88 peak	
3	4924.00	7.15	34.15	40.95	49.59	49.94	74.00	-24.06 peak	
4	6954.85	8.31	35.71	40.63	41.53	44.92	74.00	-29.08 peak	
5	7386.00	8.68	35.90	40.36	39.66	43.88	74.00	-30.12 peak	
6	9848.00	10.49	37.30	36.65	38.94	50.08	74.00	-23.92 peak	



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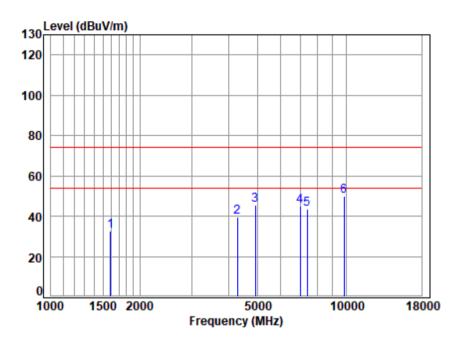


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2462 TX RSE : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.57	3.36	26.41	38.80	41.42	32.39	74.00	-41.61	peak
2	4279.59	6.56	33.60	40.51	40.13	39.78	74.00	-34.22	peak
3	4924.00	7.15	34.15	40.95	44.90	45.25	74.00	-28.75	peak
4	6974.98	8.32	35.75	40.62	41.55	45.00	74.00	-29.00	peak
5	7386.00	8.68	35.90	40.36	39.31	43.53	74.00	-30.47	peak
6	9848.00	10.49	37.30	36.65	38.73	49.87	74.00	-24.13	peak



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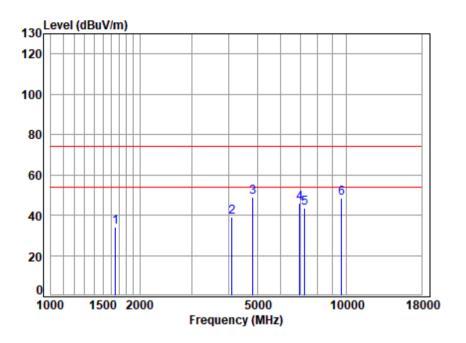


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2412 TX RSE

: 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.55	3.43	26.71	38.84	42.69	33.99	74.00	-40.01	peak
2	4109.87	6.39	33.02	40.39	39.88	38.90	74.00	-35.10	peak
3	4824.00	7.06	33.90	40.89	49.02	49.09	74.00	-24.91	peak
4	6954.85	8.31	35.71	40.63	42.33	45.72	74.00	-28.28	peak
5	7236.00	8.54	35.80	40.45	39.83	43.72	74.00	-30.28	peak
6	9648.00	10.41	37.10	36.98	37.81	48.34	74.00	-25.66	peak



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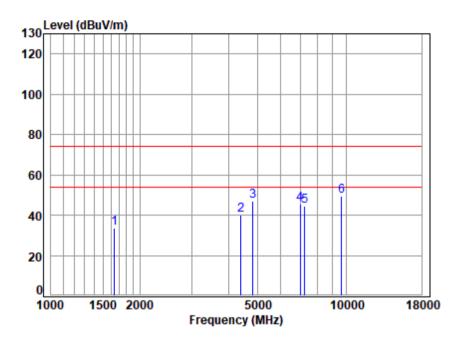


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2412 TX RSE : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.27	3.42	26.66	38.83	42.59	33.84	74.00	-40.16	peak
2	4405.09	6.68	33.50	40.60	40.30	39.88	74.00	-34.12	peak
3	4824.00	7.06	33.90	40.89	47.04	47.11	74.00	-26.89	peak
4	6995.17	8.32	35.79	40.60	41.82	45.33	74.00	-28.67	peak
5	7236.00	8.54	35.80	40.45	40.47	44.36	74.00	-29.64	peak
6	9648.00	10.41	37.10	36.98	39.11	49.64	74.00	-24.36	peak



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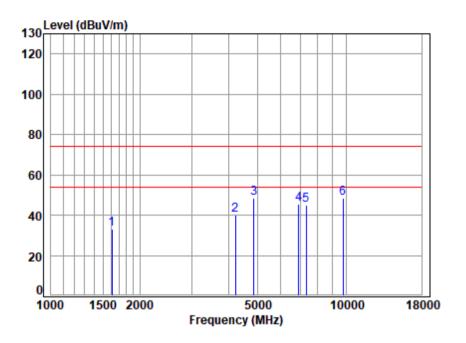


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2437 TX RSE

: 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.09	3.38	26.54	38.81	42.17	33.28	74.00	-40.72	peak
2	4218.19	6.50	33.47	40.47	40.45	39.95	74.00	-34.05	peak
3	4874.00	7.10	34.05	40.92	48.37	48.60	74.00	-25.40	peak
4	6914.76	8.31	35.63	40.66	42.09	45.37	74.00	-28.63	peak
5	7311.00	8.61	35.90	40.40	40.65	44.76	74.00	-29.24	peak
6	9748.00	10.45	37.20	36.81	37.50	48.34	74.00	-25.66	peak



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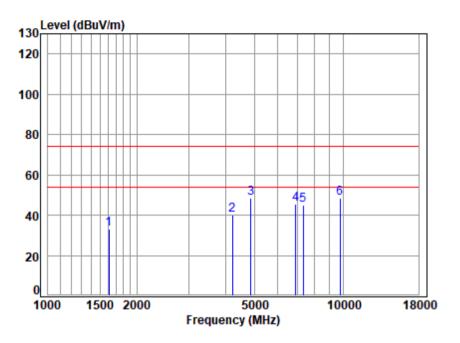


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.09	3.38	26.54	38.81	42.17	33.28	74.00	-40.72	peak
2	4218.19	6.50	33.47	40.47	40.45	39.95	74.00	-34.05	peak
3	4874.00	7.10	34.05	40.92	48.37	48.60	74.00	-25.40	peak
4	6914.76	8.31	35.63	40.66	42.09	45.37	74.00	-28.63	peak
5	7311.00	8.61	35.90	40.40	40.65	44.76	74.00	-29.24	peak
6	9748.00	10.45	37.20	36.81	37.50	48.34	74.00	-25.66	peak



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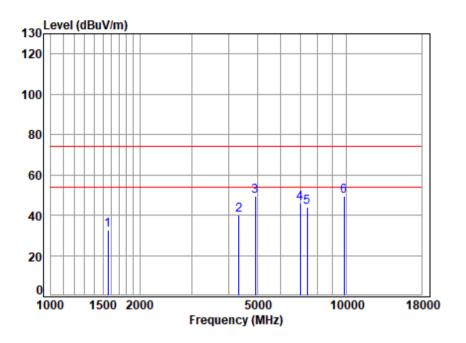
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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS : 2462 TX RSE Mode Note : 2.4G WIFI 11N20

> Ant Preamp Limit 0ver Cable Read Frea Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB/m 1560.67 3.32 26.03 38.79 42.04 32.60 74.00 -41.40 peak 4329.35 6.61 33.60 40.55 40.15 39.81 74.00 -34.19 peak 4924.00 7.15 34.15 40.95 49.29 49.64 74.00 -24.36 peak 6974.98 8.32 35.75 40.62 42.63 46.08 74.00 -27.92 peak 7386.00 8.68 35.90 40.36 39.83 44.05 74.00 -29.95 peak

9848.00 10.49 37.30 36.65 38.21 49.35 74.00 -24.65 peak



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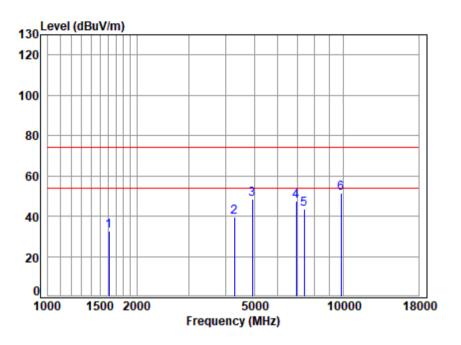


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446HS Mode : 2462 TX RSE

: 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.09	3.38	26.54	38.81	41.71	32.82	74.00	-41.18	peak
2	4279.59	6.56	33.60	40.51	39.66	39.31	74.00	-34.69	peak
3	4924.00	7.15	34.15	40.95	48.05	48.40	74.00	-25.60	peak
4	6934.78	8.31	35.67	40.65	44.02	47.35	74.00	-26.65	peak
5	7386.00	8.68	35.90	40.36	39.34	43.56	74.00	-30.44	peak
6	9848.00	10.49	37.30	36.65	40.05	51.19	74.00	-22.81	peak



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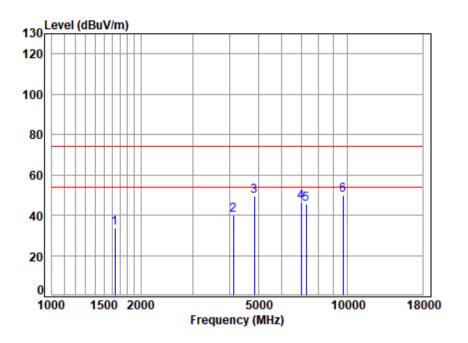


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2422 TX RSE Note

: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4674.54	2 44	26.64	20.02	40 54	22.72	74.00	40.07	
1	1634.54	3.41	26.64	38.83	42.51	33./3	74.00	-40.27	peak
2	4121.77	6.40	33.04	40.39	41.22	40.27	74.00	-33.73	peak
3	4844.00	7.08	33.98	40.90	49.22	49.38	74.00	-24.62	peak
4	6974.98	8.32	35.75	40.62	42.85	46.30	74.00	-27.70	peak
5	7266.00	8.57	35.83	40.43	41.61	45.58	74.00	-28.42	peak
6	9688.00	10.42	37.10	36.91	39.11	49.72	74.00	-24.28	peak



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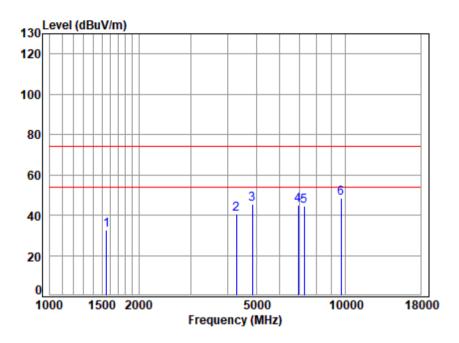


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 02446HS Mode

: 2422 TX RSE : 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.17	3.31	25.98	38.78	42.23	32.74	74.00	-41.26	peak
2	4279.59	6.56	33.60	40.51	40.82	40.47	74.00	-33.53	peak
3	4844.00	7.08	33.98	40.90	45.53	45.69	74.00	-28.31	peak
4	6934.78	8.31	35.67	40.65	41.86	45.19	74.00	-28.81	peak
5	7266.00	8.57	35.83	40.43	40.58	44.55	74.00	-29.45	peak
6	9688.00	10.42	37.10	36.91	37.80	48.41	74.00	-25.59	peak



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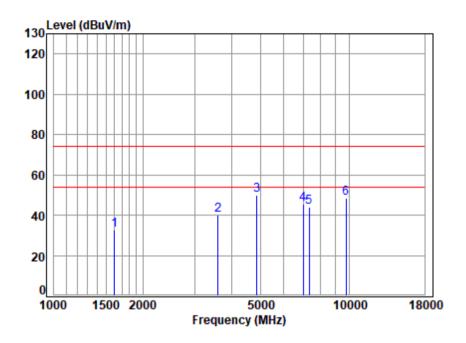


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Report No.: SZCR230700244602

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2437 TX RSE

: 2.4G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.80	3.37	26.51	38.81	41.59	32.66	74.00	-41.34	peak
2	3598.20	5.74	31.90	40.01	42.25	39.88	74.00	-34.12	peak
3	4874.00	7.10	34.05	40.92	49.75	49.98	74.00	-24.02	peak
4	6974.98	8.32	35.75	40.62	42.18	45.63	74.00	-28.37	peak
5	7311.00	8.61	35.90	40.40	40.06	44.17	74.00	-29.83	peak
6	9748.00	10.45	37.20	36.81	37.60	48.44	74.00	-25.56	peak



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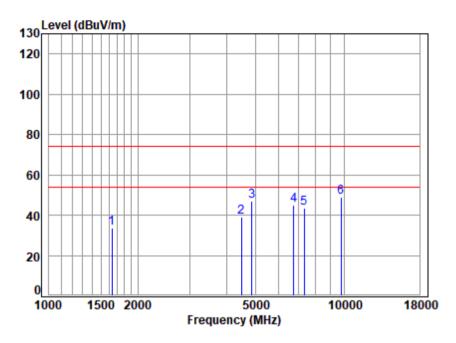


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL : 02446HS

Mode : 2437 TX RSE : 2.4G WIFI 11N40 Note

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
		40	u.,	45	aba.	abar,	abar, iii	45	
1	1634.54	3.41	26.64	38.83	42.46	33.68	74.00	-40.32	peak
2	4482.15	6.75	33.50	40.66	39.43	39.02	74.00	-34.98	peak
3	4874.00	7.10	34.05	40.92	46.86	47.09	74.00	-26.91	peak
4	6737.21	8.28	35.53	40.80	42.12	45.13	74.00	-28.87	peak
5	7311.00	8.61	35.90	40.40	39.62	43.73	74.00	-30.27	peak
6	9748.00	10.45	37.20	36.81	38.23	49.07	74.00	-24.93	peak



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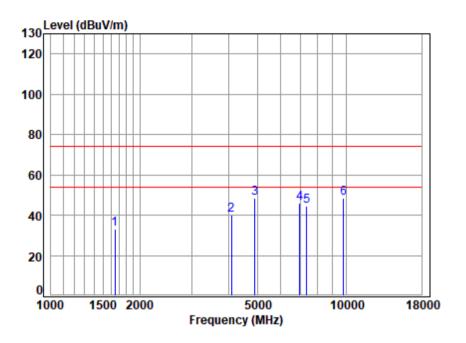


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02446HS Mode : 2452 TX RSE : 2.4G WIFI 11N40 Note

> Cable Ant Preamp Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.78	3.43	26.70	38.83	41.96	33.26	74.00	-40.74	peak
2	4086.18	6.37	32.97	40.37	40.88	39.85	74.00	-34.15	peak
3	4904.00	7.13	34.11	40.94	48.29	48.59	74.00	-25.41	peak
4	6954.85	8.31	35.71	40.63	42.34	45.73	74.00	-28.27	peak
5	7356.00	8.65	35.90	40.38	40.48	44.65	74.00	-29.35	peak
6	9808.00	10.47	37.22	36.71	37.46	48.44	74.00	-25.56	peak



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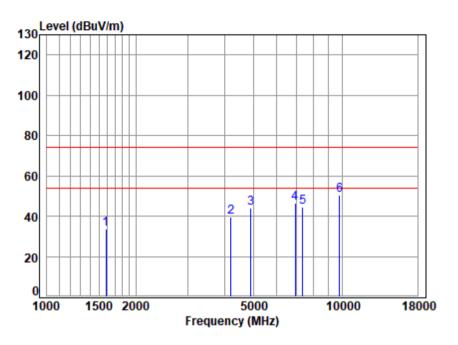


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 02446HS Mode : 2452 TX RSE

: 2.4G WIFI 11N40 Note

	Freq			Preamp Factor	Read Level		Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.98	3.35	26.36	38.80	42.57	33.48	74.00	-40.52	peak
2	4206.01	6.49	33.42	40.46	39.90	39.35	74.00	-34.65	peak
3	4904.00	7.13	34.11	40.94	43.64	43.94	74.00	-30.06	peak
4	6934.78	8.31	35.67	40.65	43.03	46.36	74.00	-27.64	peak
5	7356.00	8.65	35.90	40.38	40.17	44.34	74.00	-29.66	peak
6	9808.00	10.47	37.22	36.71	39.37	50.35	74.00	-23.65	peak



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2307002446HS

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2307002446HS



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10 Appendix

1. Duty Cycle

1 Ant1

1.1.1 Test Result

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2412	8.430	11.237	75.02	1.25	22.48				
802.11b	SISO	2437	8.387	10.350	81.03	0.91	15.93				
		2462	8.160	19.213	42.47	3.72	55.08				
	SISO	2412	1.394	1.664	83.77	0.77	0.03				
802.11g		2437	1.394	4.533	30.75	5.12	53.02				
		2462	1.393	1.664	83.71	0.77	0.03				
000.44	SISO	2412	5.082	7.944	63.97	1.94	30.99				
802.11n (HT20)		2437	5.082	6.598	77.02	1.13	17.94				
(11120)		2462	3.560	4.178	85.21	0.70	9.76				
222.44		2422	2.470	2.760	89.49	0.48	0.67				
802.11n (HT40)	SISO	2437	2.470	3.972	62.19	2.06	27.98				
(1140)		2452	2.470	2.740	90.15	0.45	0.00				



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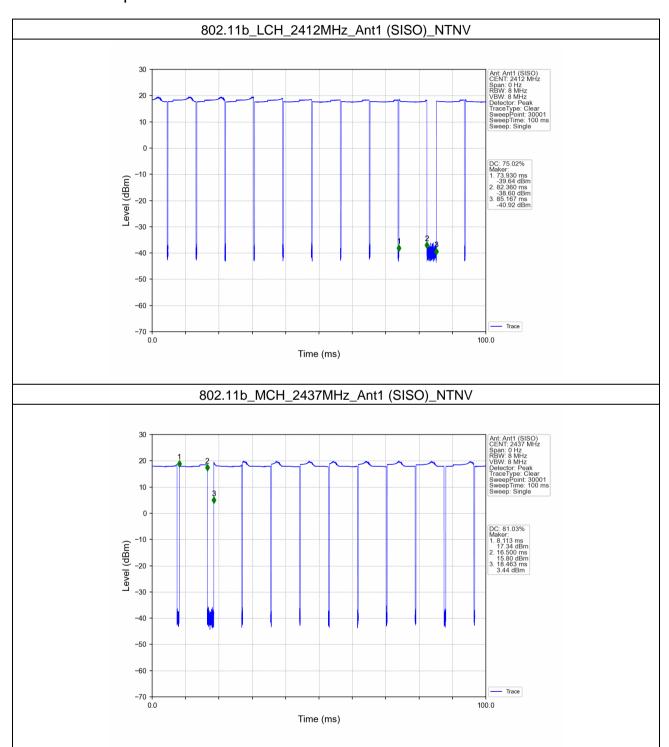
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1.1.2 Test Graph





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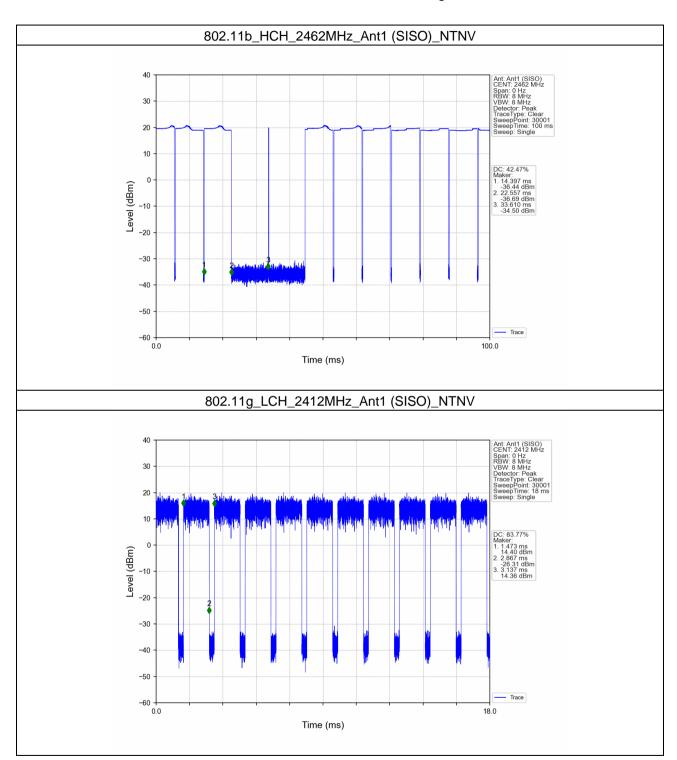
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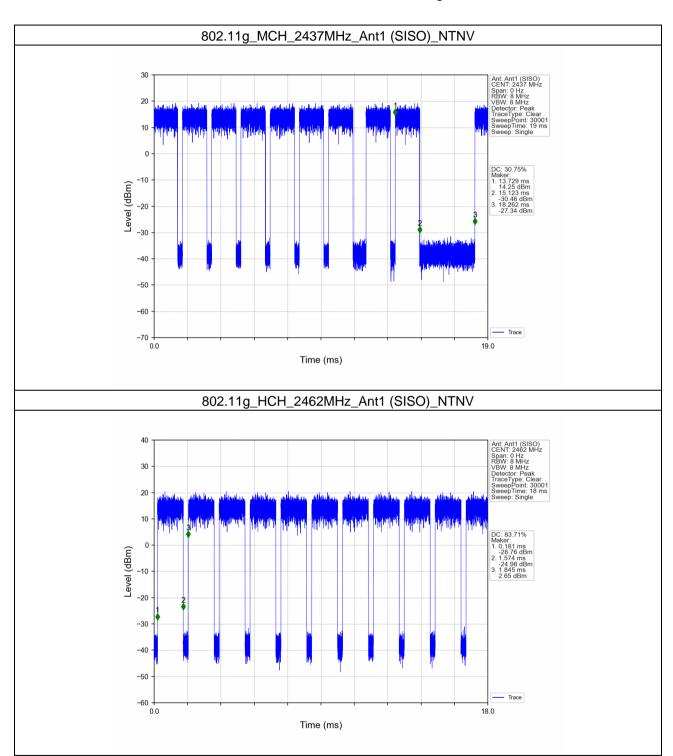
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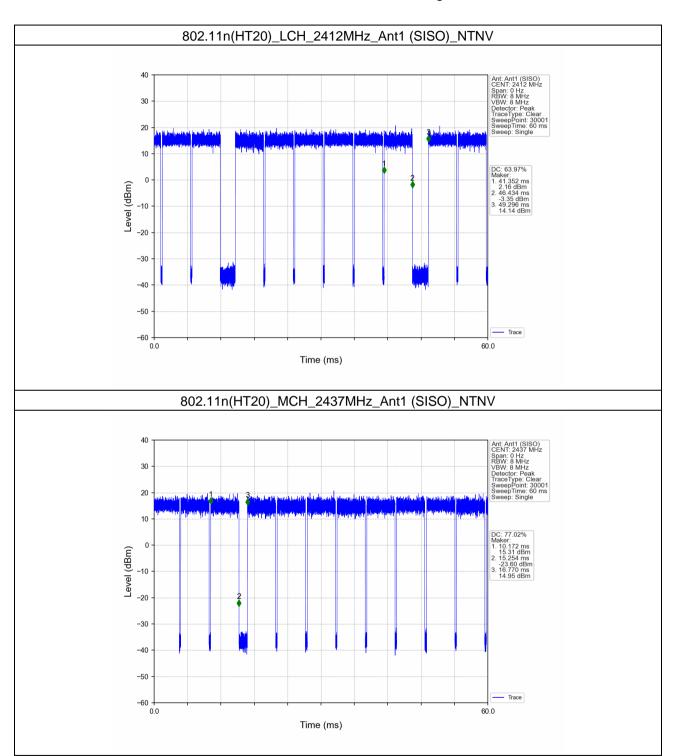
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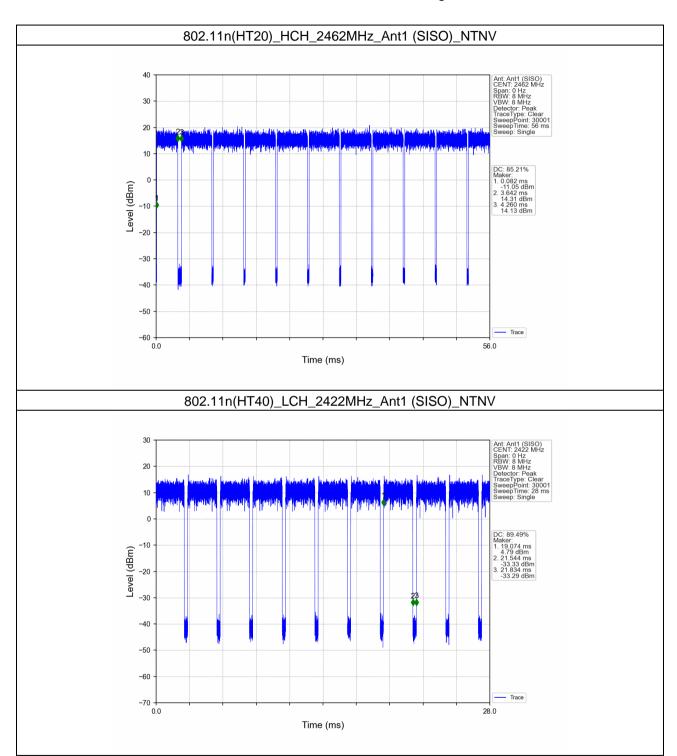
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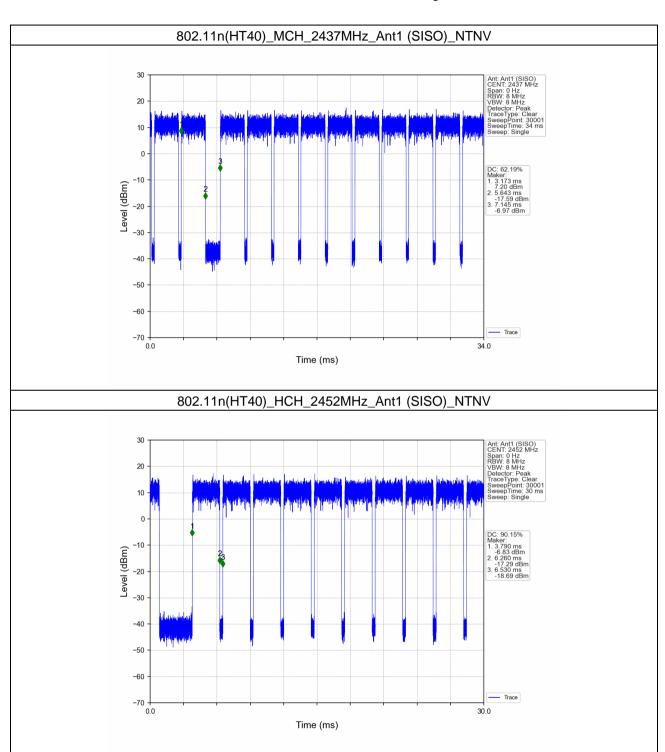
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	ANIT	99% Occupied Bandwidth (MHz)	Verdict	
Mode	Туре	(MHz)	ANT	Result	verdict	
		2412	1	13.056	Pass	
802.11b	SISO	2437	1	12.966	Pass	
		2462	1	12.826	Pass	
	SISO	2412		17.663	Pass	
802.11g		2437	1	17.587	Pass	
		2462	1	17.545	Pass	
000.44	SISO	2412	1	18.462	Pass	
802.11n (HT20)		2437	1	18.446	Pass	
		2462	1	18.426	Pass	
222.44		2422	1	37.486	Pass	
802.11n (HT40)	SISO	2437	1	37.265	Pass	
		2452	1	37.238	Pass	



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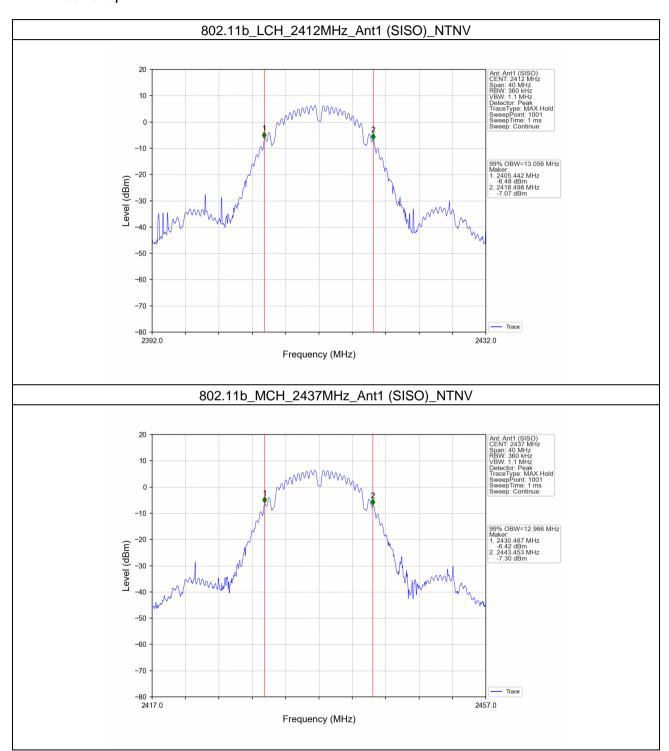


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2.1.2 Test Graph





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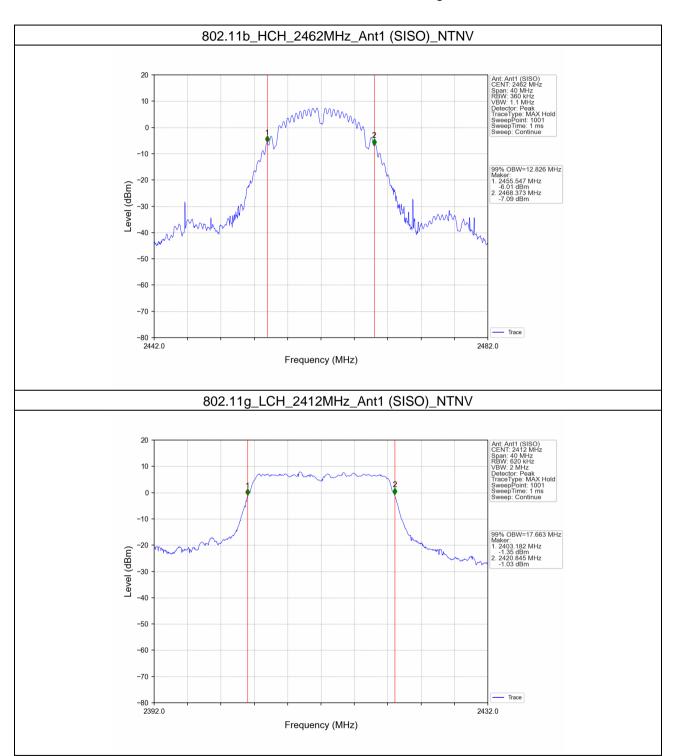
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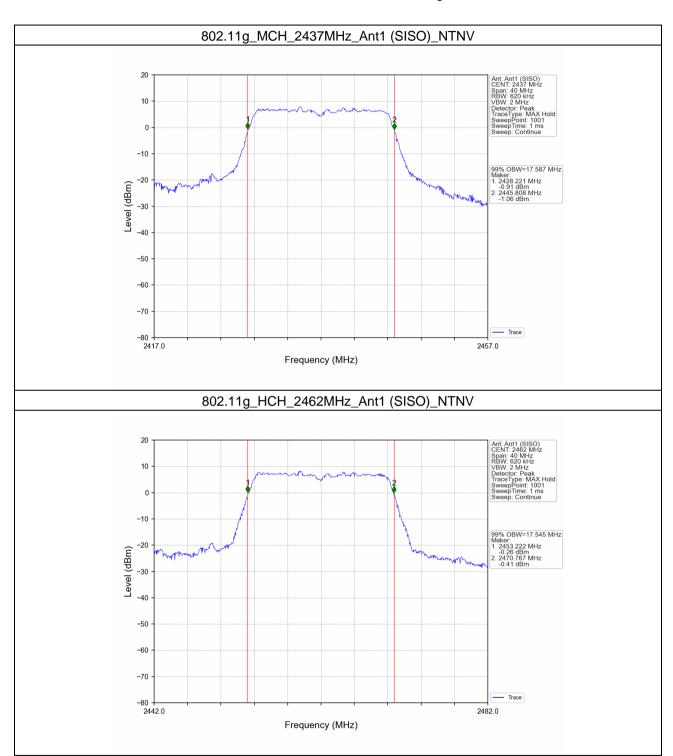
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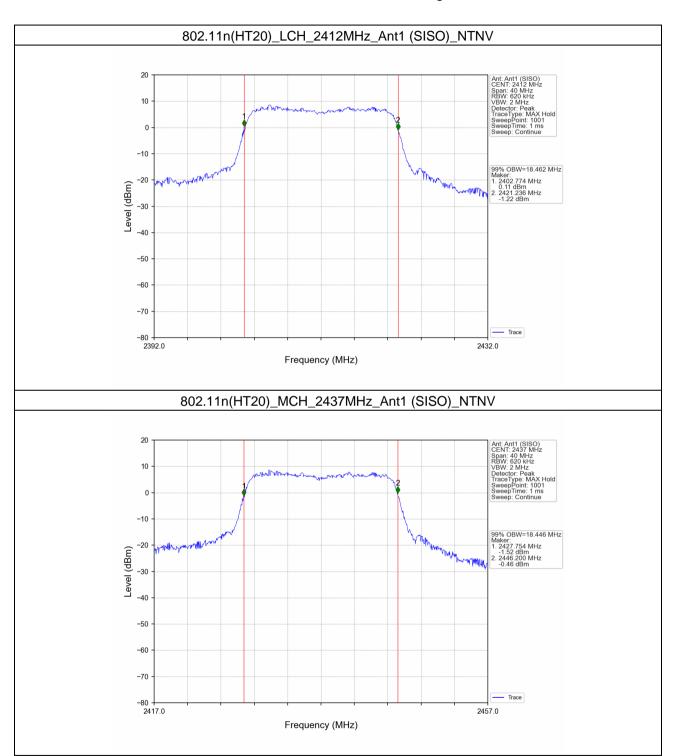
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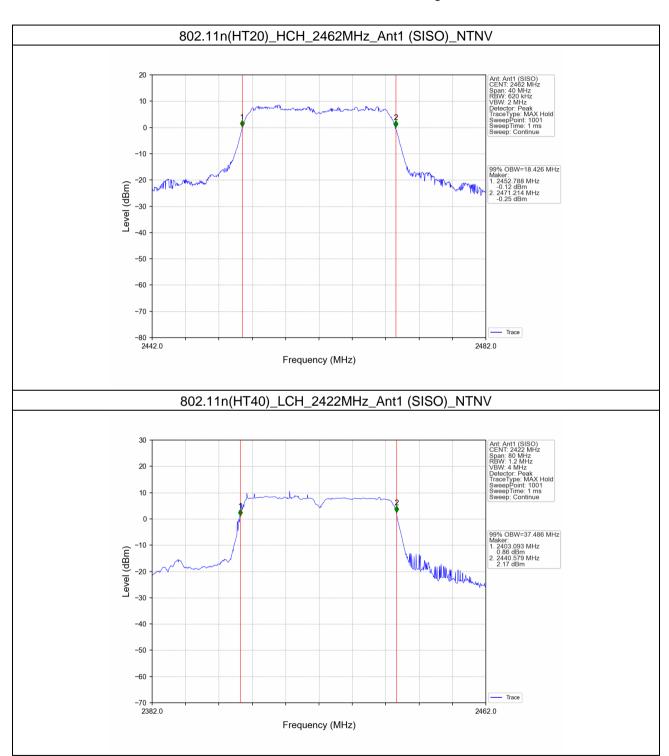
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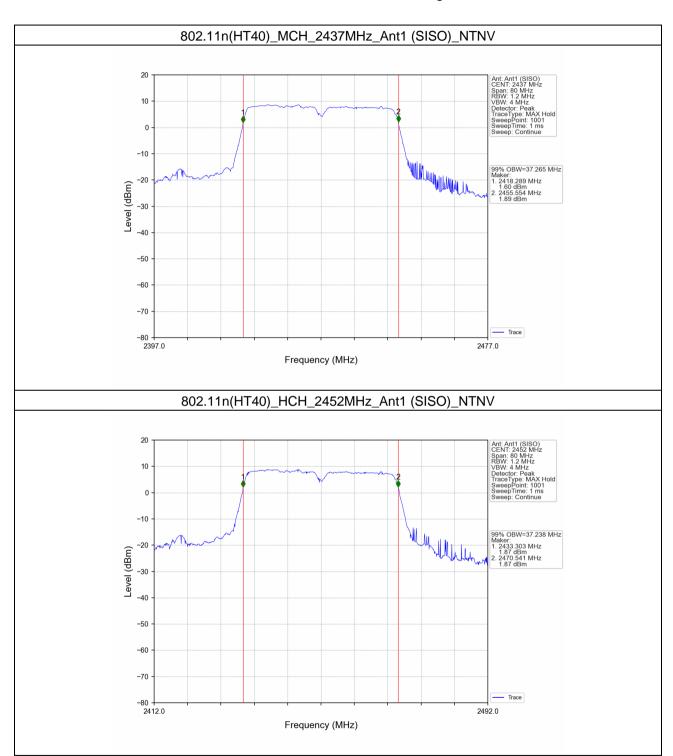
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	ANIT	6dB Bandv	Vardiet	
	Type	(MHz)	ANT	Result	Limit	Verdict
		2412	1	9.078	>=0.5	Pass
802.11b	SISO	2437	1	9.086	>=0.5	Pass
		2462	1	9.070	>=0.5	Pass
	SISO	2412	1	16.389	>=0.5	Pass
802.11g		2437	1	16.382	>=0.5	Pass
		2462	1	16.379	>=0.5	Pass
000.44	SISO	2412	1	17.608	>=0.5	Pass
802.11n (HT20)		2437	1	17.378	>=0.5	Pass
		2462	1	17.573	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.131	>=0.5	Pass
		2437	1	36.094	>=0.5	Pass
		2452	1	36.068	>=0.5	Pass



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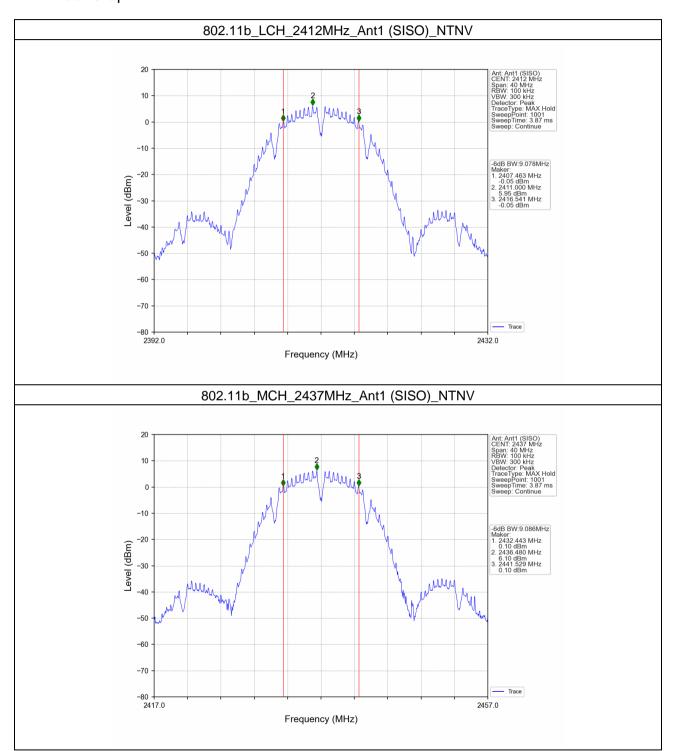


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2.2.2 Test Graph





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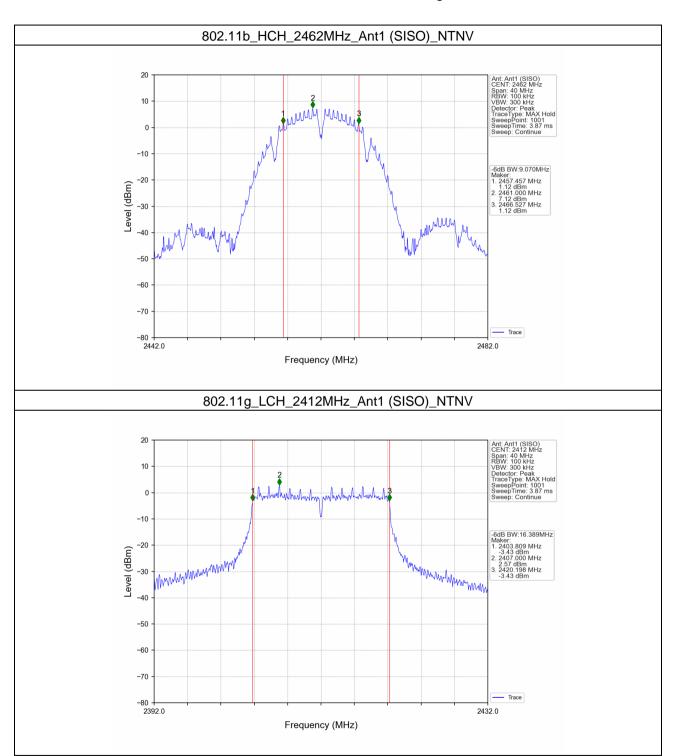
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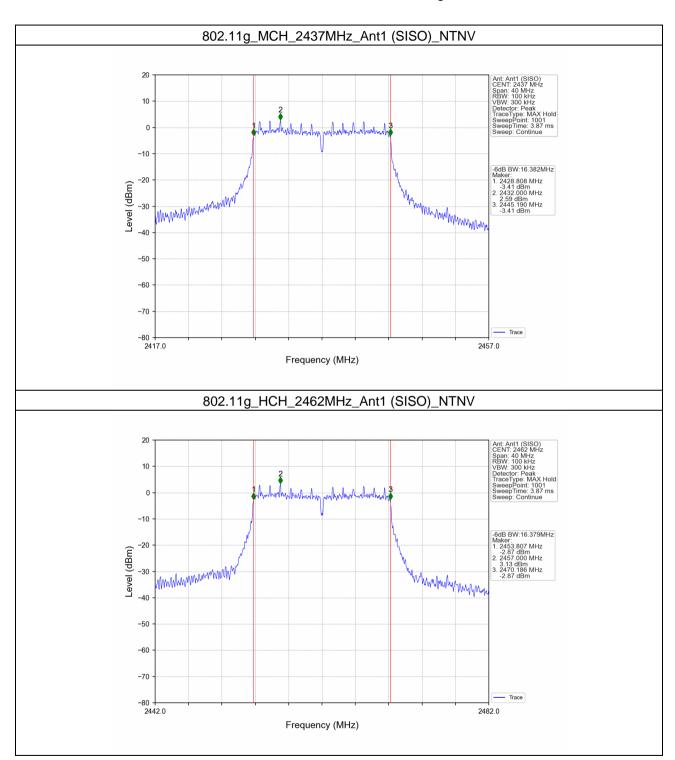
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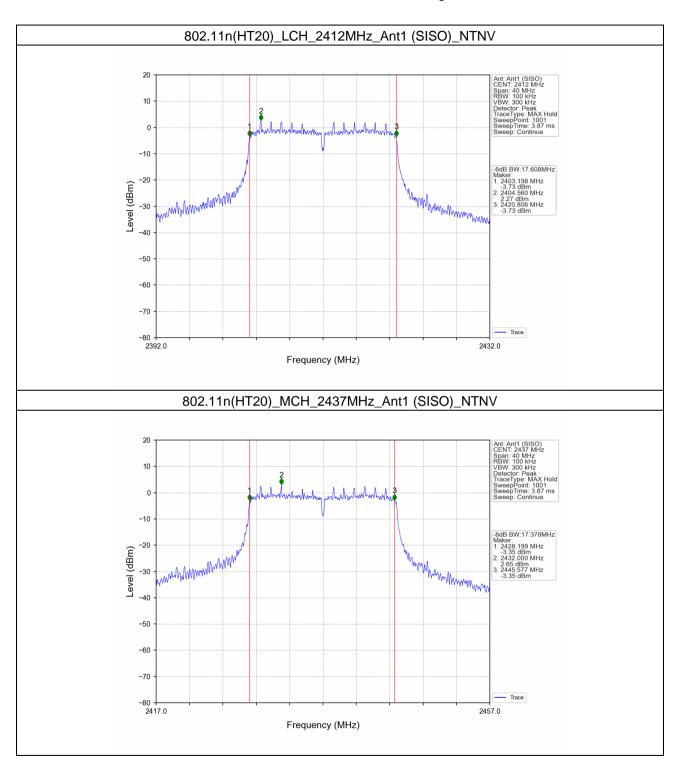
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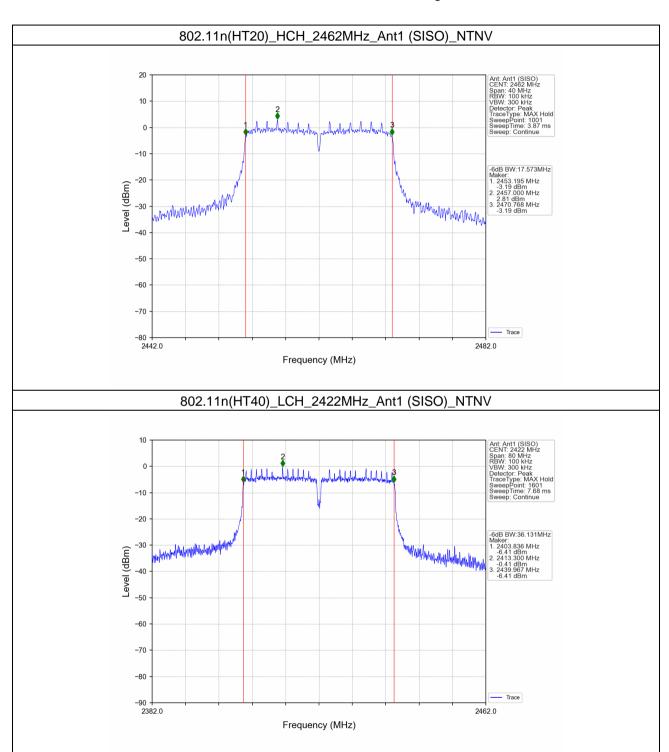
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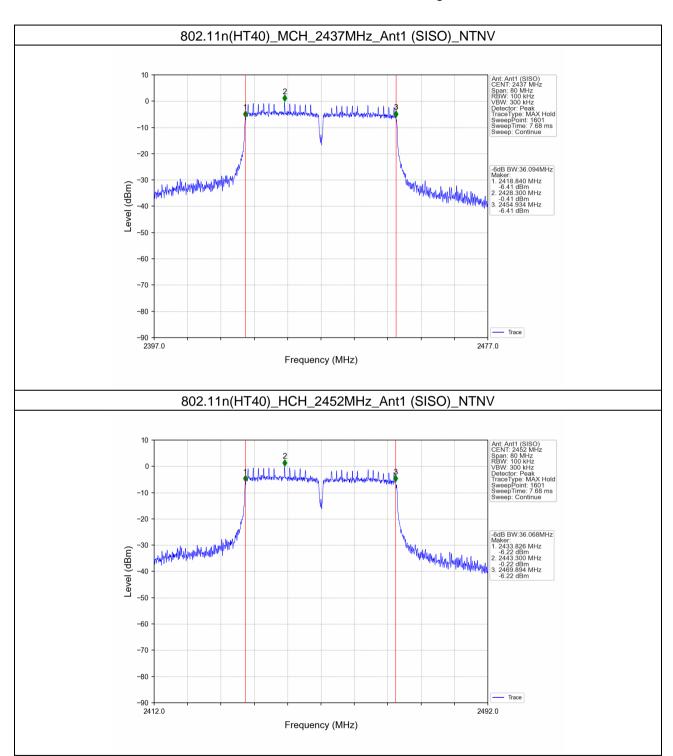
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Co (dE	Verdict	
			ANT1	Limit	
	SISO	2412	8.72	<=30	Pass
802.11b		2437	8.81	<=30	Pass
		2462	7.71	<=30	Pass
		2412	12.87	<=30	Pass
802.11g	SISO	2437	13.35	<=30	Pass
		2462	14.03	<=30	Pass
200.44		2412	11.14	<=30	Pass
802.11n (HT20)	SISO	2437	11.38	<=30	Pass Pass
(11120)		2462	12.21	<=30	
200.44		2422	11.40	<=30	Pass
802.11n (HT40)	SISO	2437	11.63	<=30	Pass
(11170)		2452	11.07	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Mondiat
Mode			ANT1	Limit	Verdict
		2412	-12.80	<=8	Pass
802.11b	SISO	2437	-12.72	<=8	Pass
		2462	-13.79	<=8	Pass
	SISO	2412	-12.76	<=8	Pass
802.11g		2437	-12.31	<=8	Pass
		2462	-11.18	<=8	Pass
200.44	SISO	2412	-12.83	<=8	Pass
802.11n (HT20)		2437	-14.07	<=8	Pass
(11120)		2462	-11.94	<=8	Pass
222.44		2422	-16.35	<=8	Pass
802.11n (HT40)	SISO	2437	-16.39	<=8	Pass
(11140)		2452	-16.82	<=8	Pass



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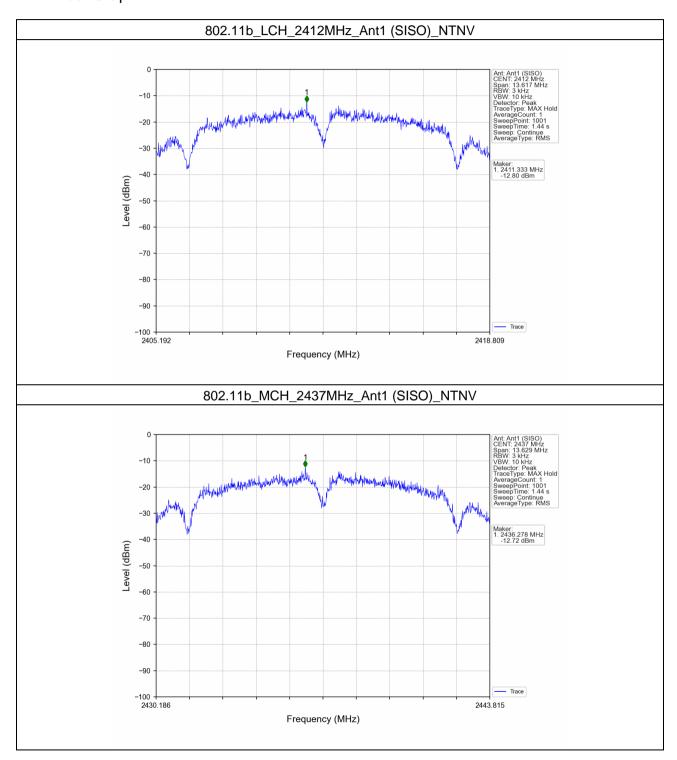


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4.1.2 Test Graph





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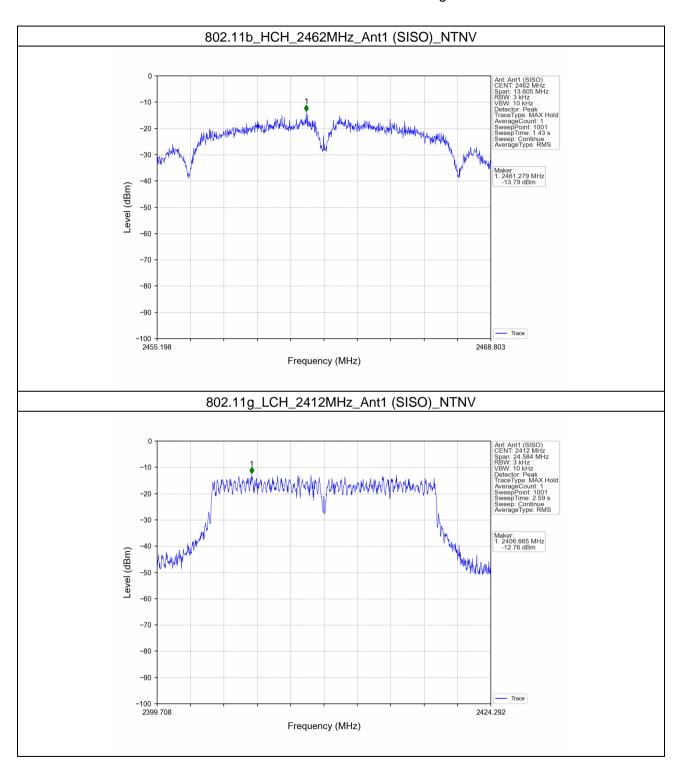
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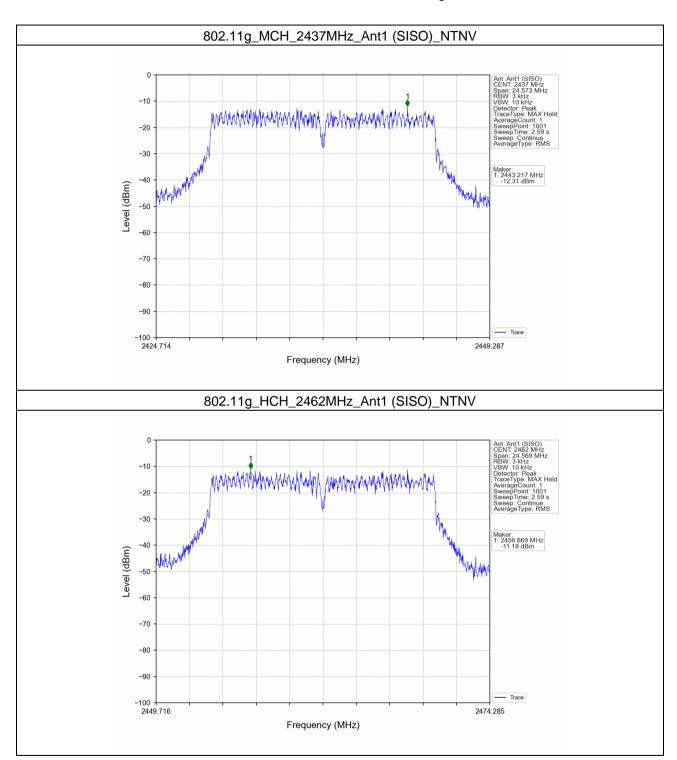
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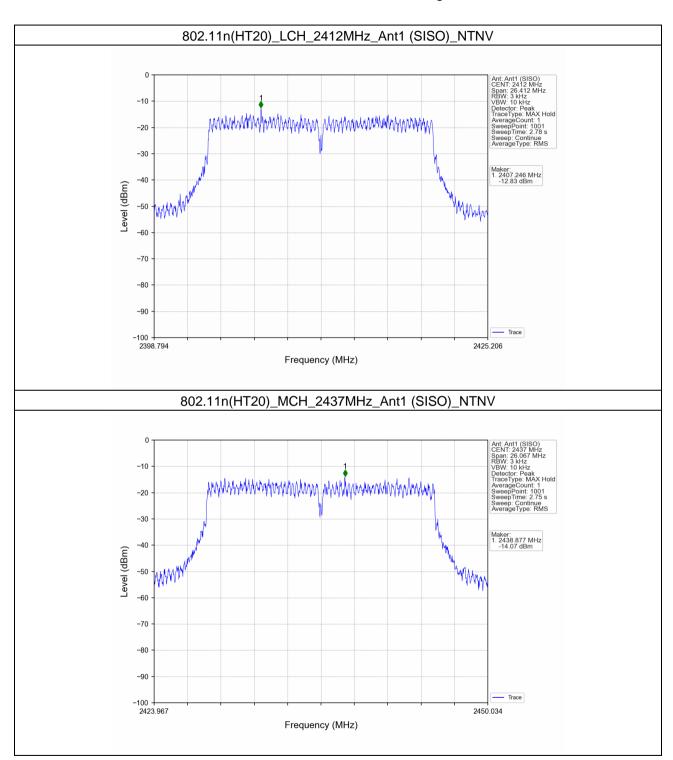
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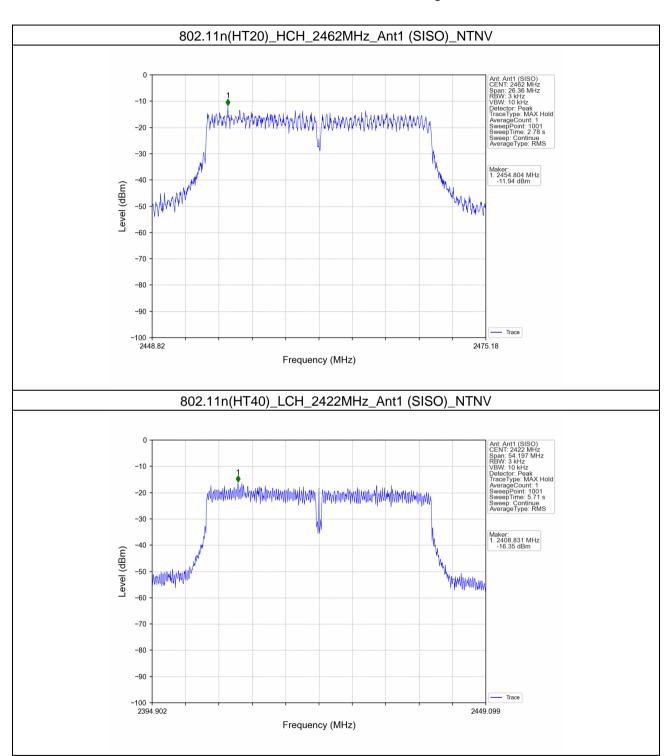
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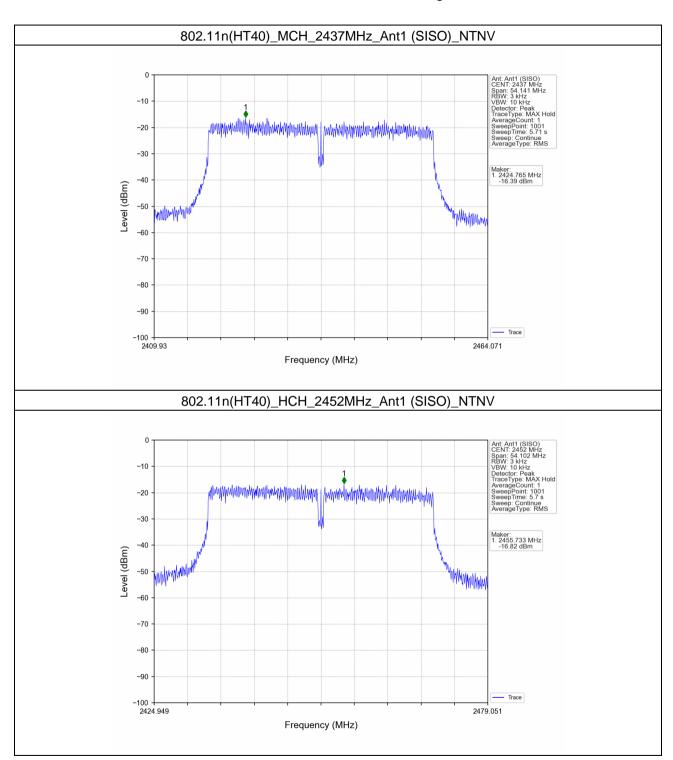
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
	SISO	2412	1	0.29
802.11b		2437	1	0.76
		2462	1	-0.48
	SISO	2412	1	2.88
802.11g		2437	1	2.51
802.119		2462	1	2.98
	SISO	2412	1	-5.55
802.11n		2437	1	2.28
(HT20)		2462	1	2.67
	SISO	2422	1	-2.22
802.11n		2437	1	-1.17
(HT40)		2452	1	-0.71



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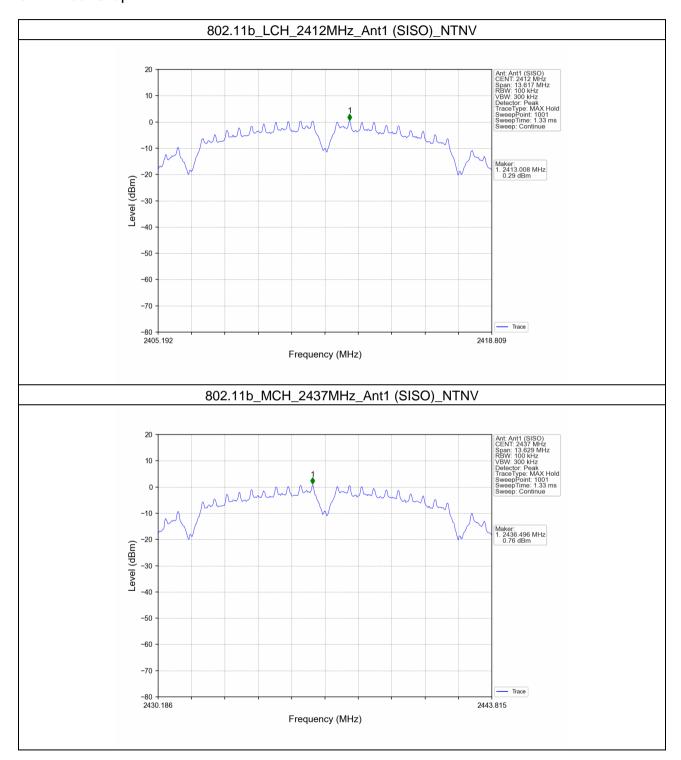


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5.1.2 Test Graph





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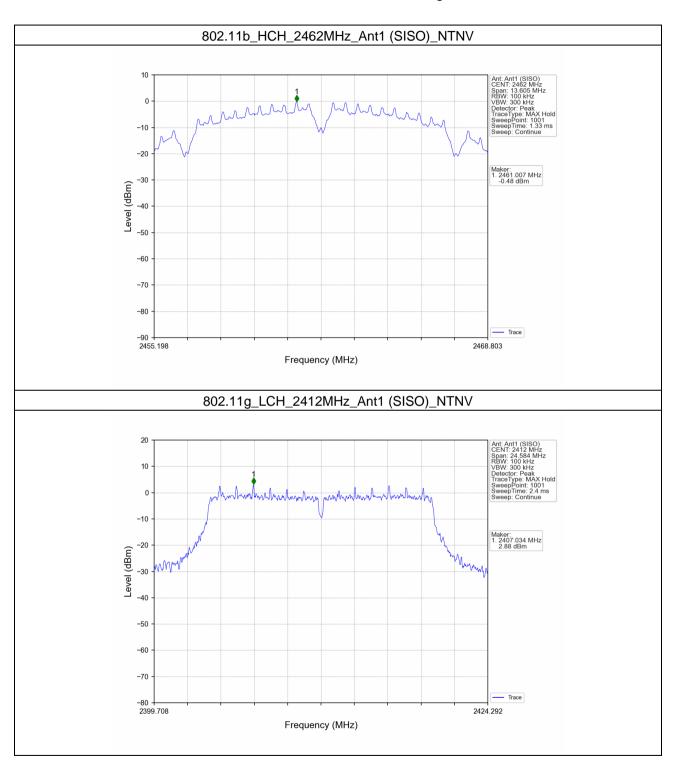
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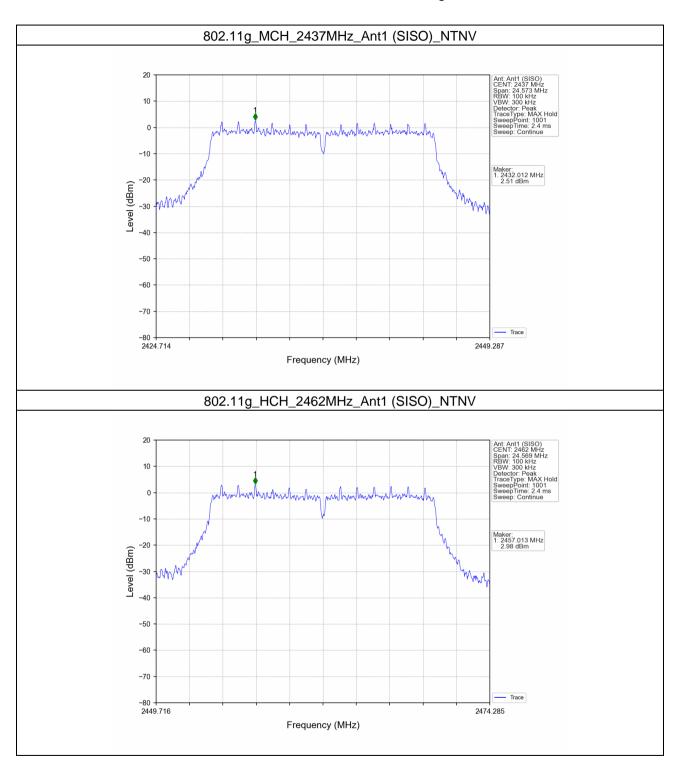
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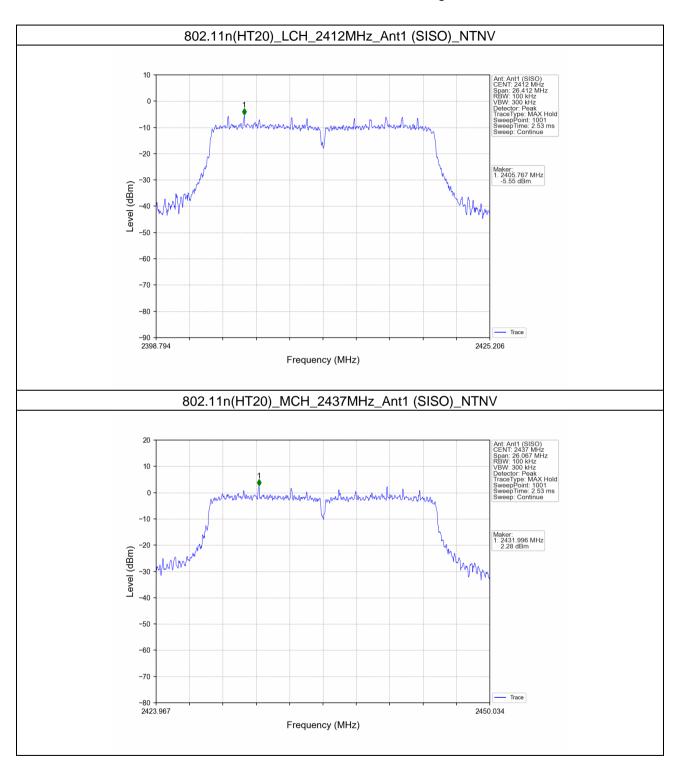
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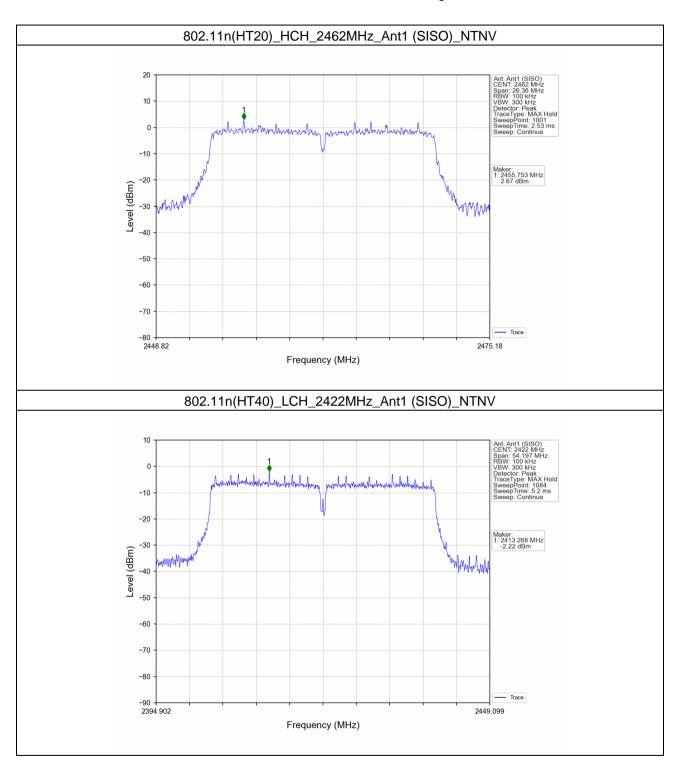
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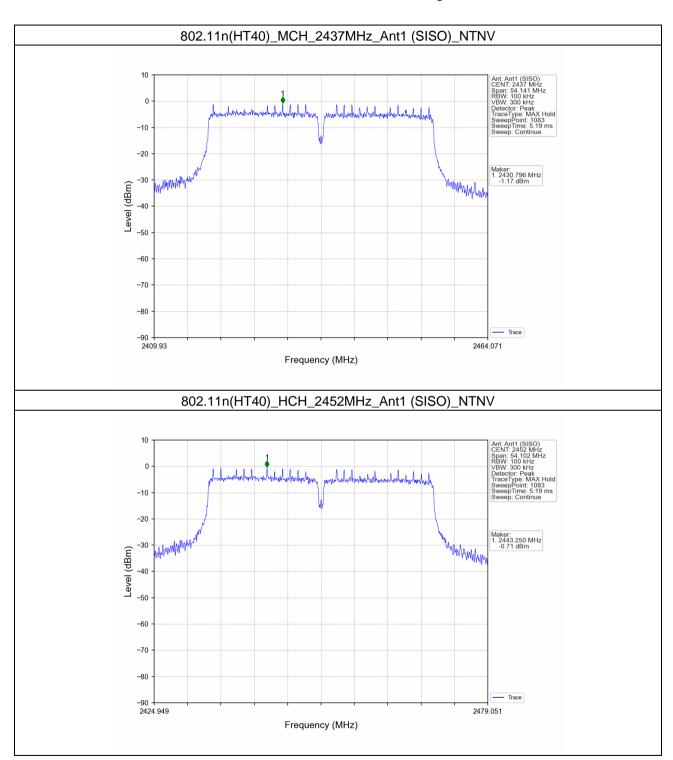
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2412	1	0.76	-29.24	Pass
802.11b	SISO	2437	1	0.76	-29.24	Pass
		2462	1	0.76	-29.24	Pass
	SISO	2412	1	2.98	-27.02	Pass
802.11g		2437	1	2.98	-27.02	Pass
		2462	1	2.98	-27.02	Pass
		2412	1	2.67	-27.33	Pass
802.11n (HT20)	SISO	2437	1	2.67	-27.33	Pass Pass
(11120)		2462	1	2.67	-27.33	
		2422	1	-0.71	-30.71	Pass
802.11n (HT40)	SISO	2437	1	-0.71	-30.71	Pass
(11140)		2452	1	-0.71	-30.71	Pass



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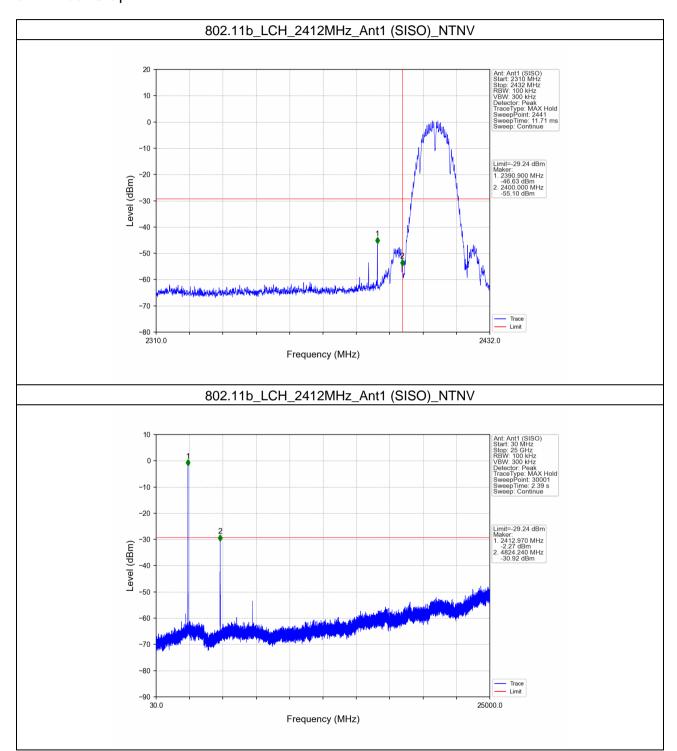
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5.2.2 Test Graph





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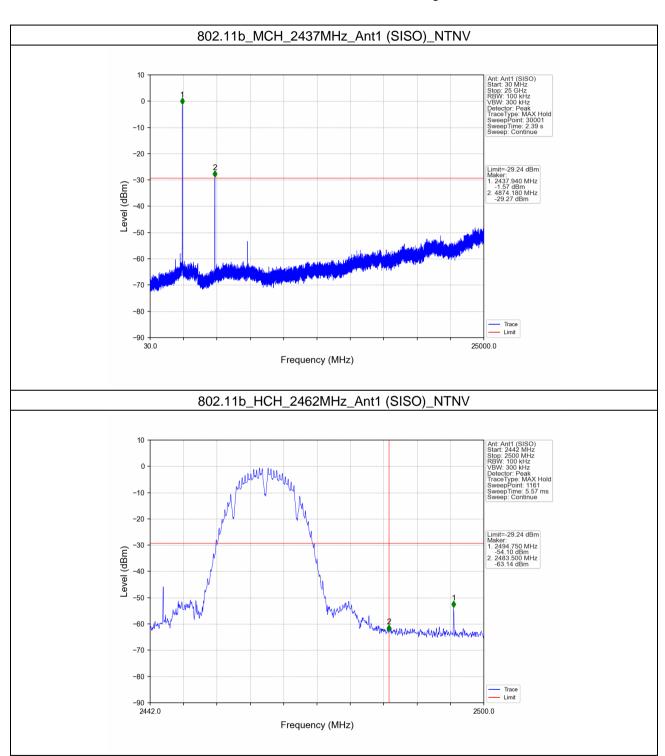
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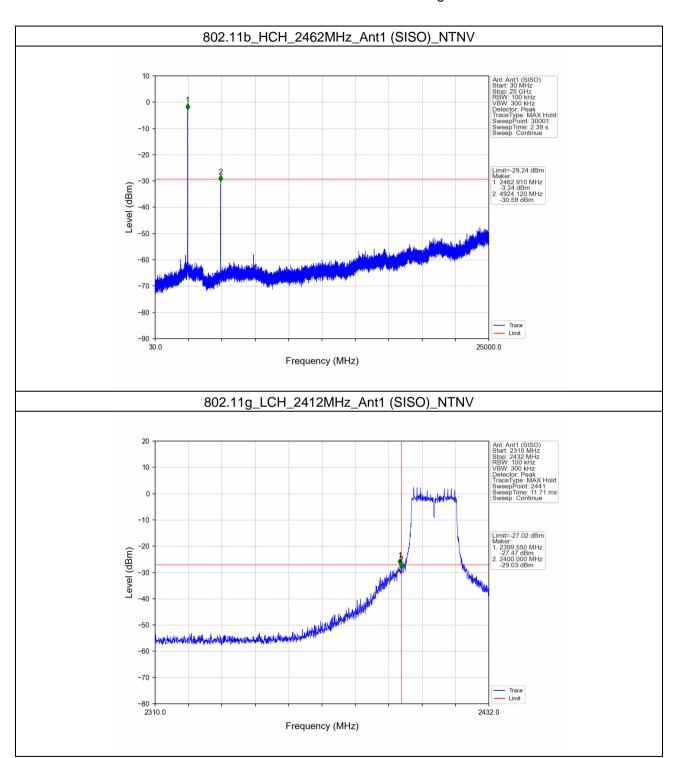
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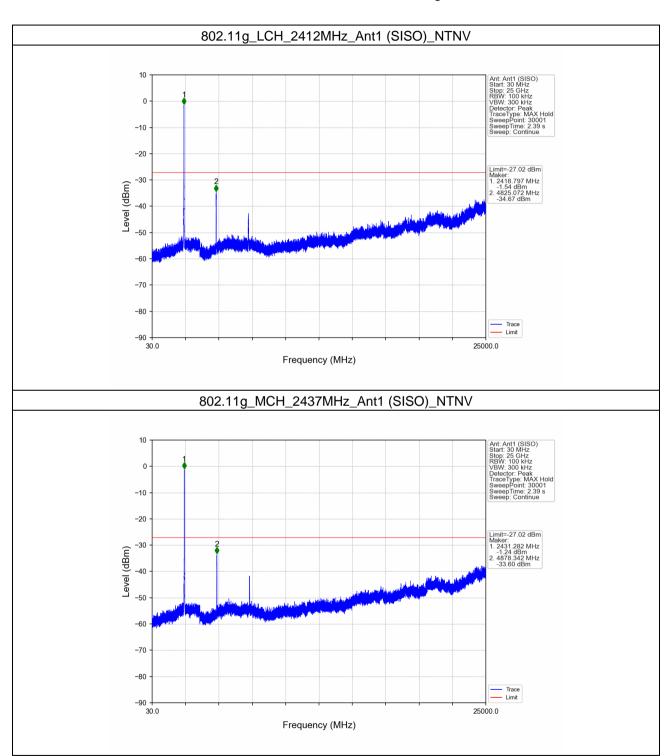
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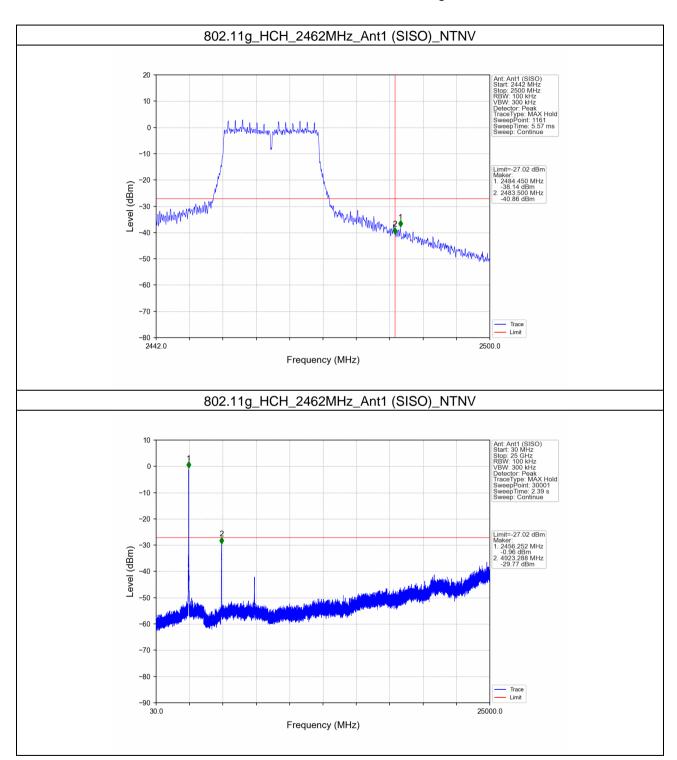
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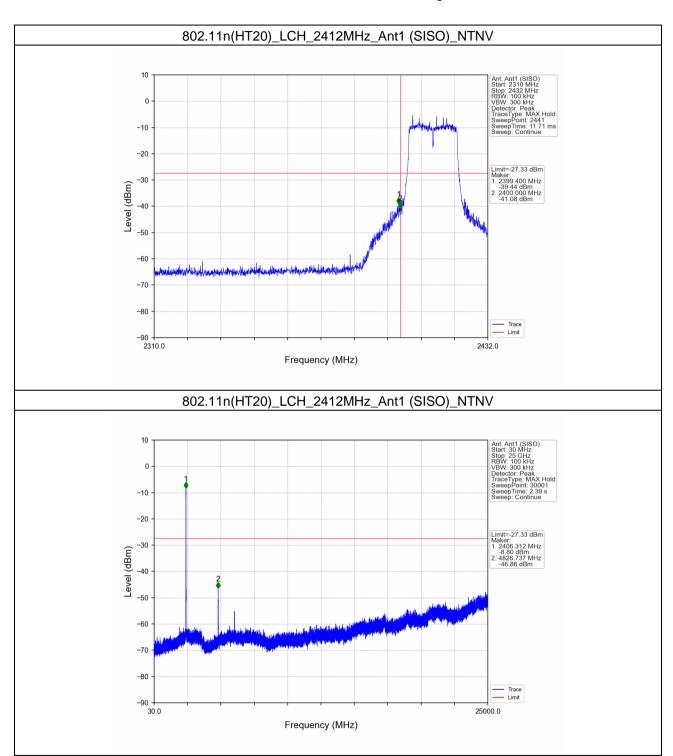
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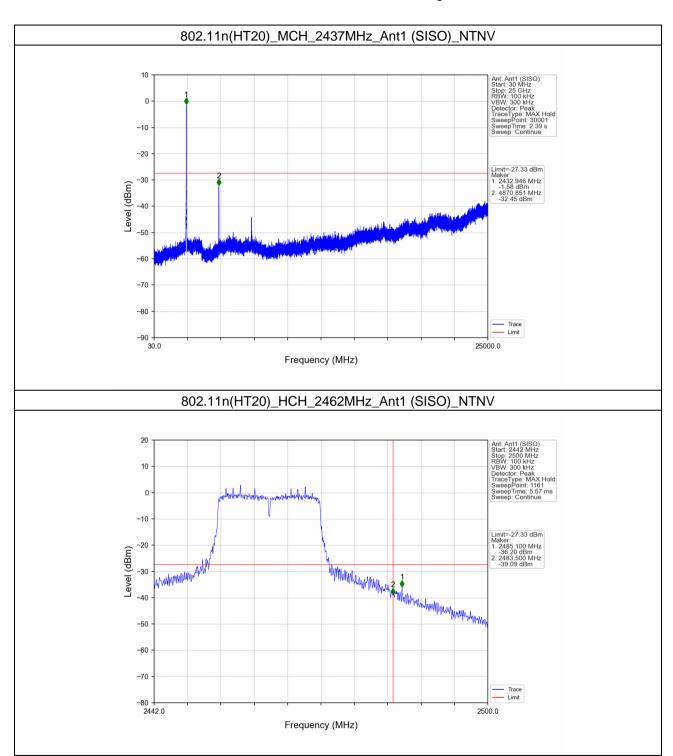
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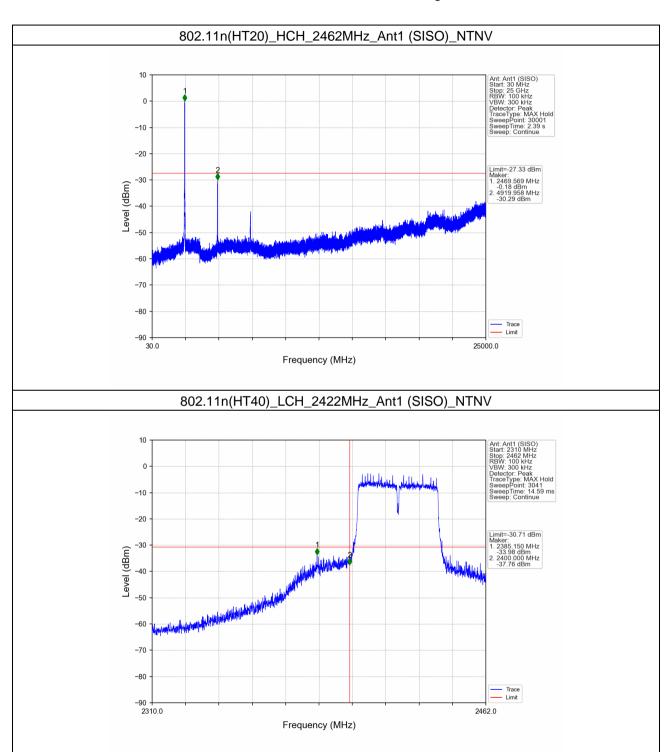
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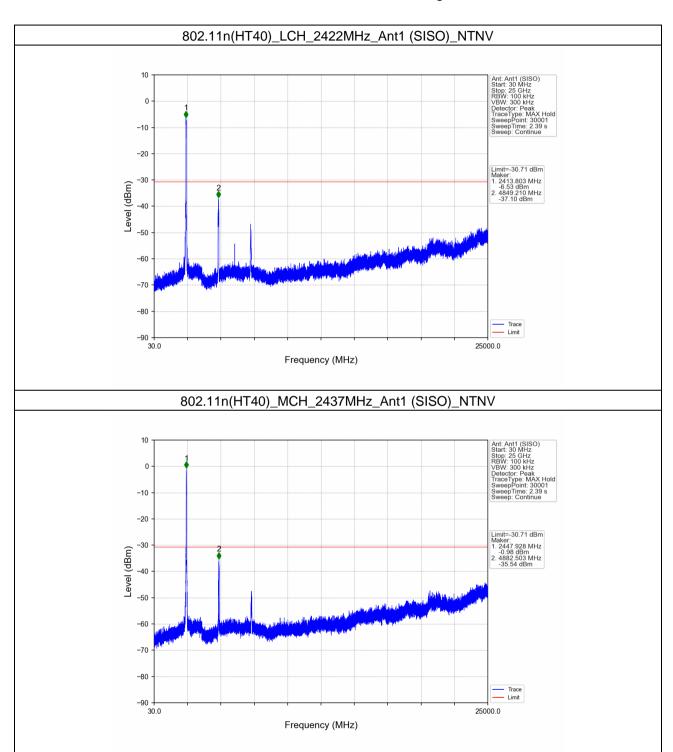
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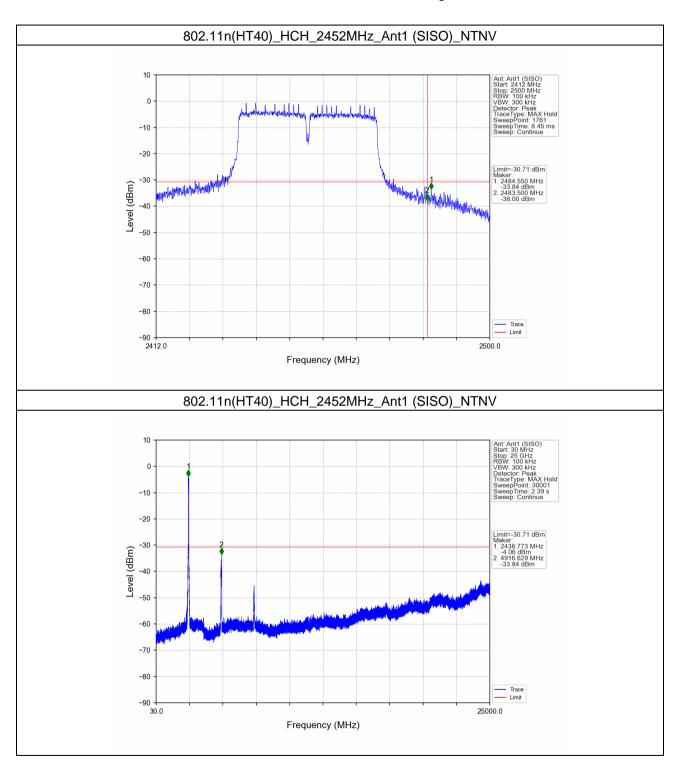
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6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	r Freq (MHz) High Freq (MHz) MAX Power (W)		MAX Power (dBm)	
2412	2462	0.0253	14.03	
2422	2452	0.0146	11.63	

- End of the Report -



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