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TEST REPORT

GZCR2203000292HS
IPX Corporation
5F, 98, Hannam-daero, Yongsan-gu
Bath & Beauty Work, Ltd.
277 broadway suit 1208 new york, NY 100072033, USA
Bath & Beauty Work, Ltd.
277 broadway suit 1208 new york, NY 100072033, USA
):
ACTION CAMERA
8809841684842
47 CFR Part 15, Subpart C 15.247
2022-03-24
2022-04-12 to 2022-06-16
2022-06-23
Pass*

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

oke. Jun

Kobe Jian EMC Laboratory Manager



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	Revision Record					
Version	Report No.	Date	Remark			
01	GZCR220300029202	2022-06-23	Original			
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Authorized for issue by		
	Coly knong	
	Lily Kuang/Project Engineer	
	Ridey Liv	
	Ricky Liu/Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Resu						
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						
ltem	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, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
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**		

**: The EUT passed Radiated Spurious Emissions Above 1GHz test after modifications.

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by built-in battery:3.7V LI-Ion Battery 900mAh 3.33Wh
	DC 5V for charging mode
Test voltage:	AC120V,60Hz
Cable(s):	DC cable (1.0, unshielded)
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Antenna Type:	PCB antenna
Number of Channels:	802.11b/g/n(HT20): 11
Hardware Version:	AT-G208
Firmware Version:	V1.00
S/N:	SP-2022006107
Test Software Version:	Secure CRT
Power setting level	12.65dBm for 802.11b;
	10.65 dBm for 802.11g;
	10.98 dBm for 802.11n(HT20)

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	IBM	T30	S/N78-3VMLX 06/01

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz- 30MHz)	±2.76dB
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	±5.00dB (30MHz-1GHz; 3m);±4.38dB (30MHz-1GHz; 10m);± 5.12dB (1GHz- 6GHz); ±5.38dB (6GHz-18GHz); ±5.61dB (18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
Radiated Spurious Emissions Above 1GHz	±5.12dB (1GHz-6GHz); ±5.38dB (6GHz- 18GHz); ±5.61dB (18GHz-40GHz)



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.

4.5 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

The EUT passed Radiated Spurious Emissions Above 1GHz test after modifications.



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Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)								
Equipment	Equipment Manufacturer Model No Inventory No Cal Date Cal Due Date							
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08			
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2019-10-20	2022-10-19			
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2021-09-24	2022-09-23			
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2022-05-20	2023-05-19			
Test Software E3r	Audix	Ver.6.11812	GZE100-77	N/A	N/A			

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29
Test Software	TST	V2.0	GZE100-78	N/A	N/A

Minimum 6dB Bandwidth									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01				
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19				
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29				
Test Software	TST	V2.0	GZE100-78	N/A	N/A				

Power Spectrum Density									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01				
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19				
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29				
Test Software	TST	V2.0	GZE100-78	N/A	N/A				

Conducted Band Edges Measurement									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01				
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19				
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29				
Test Software	TST	V2.0	GZE100-78	N/A	N/A				



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Conducted Spurious Emissions								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
MI CABLE	SGS-EMC	0.8M	EMC2137	2021-11-02	2023-11-01			
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19			
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2021-08-30	2022-08-29			
Test Software	TST	V2.0	GZE100-78	N/A	N/A			

Radiated Emissions which fall in the restricted bands								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16			
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16			
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08			
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24			
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27			
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19			
MXE EMI Receiver (10Hz-8.4GHz)	Keysight N9038A		EMC2139	2021-11-01	2022-10-31			
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			

Radiated Spurious Emissions Below 1GHz								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19			
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08			
Amplifier (9kHz-1.3GHz)	HP	8447F	EMC2065	2022-05-16	2023-05-15			
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05			
EMI Test Receiver (1Hz- 8GHz)	Rohde & Schwarz	ESW8	EMC2220	2022-05-20	2023-05-19			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			
Trilog Broadband Antenna (25MHz-1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2022-03-03	2025-03-02			



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Radiated Spurious Emissions Above 1GHz								
Equipment	Manufacturer	Model No Inventory No		Cal Date	Cal Due Date			
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2021-12-17	2022-12-16			
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-12-17	2022-12-16			
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08			
Horn Antenna (1GHz- 18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24			
Horn Antenna (14- 40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27			
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-12-17	2022-12-16			
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-20	2022-09-19			
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2021-11-01	2022-10-31			
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19			
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A			

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05		



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1). (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna: The antenna is integrated on the main PCB and no consideration of replacement.

The best case gain of the antenna is 0dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results 7

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

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

Limit:

Frequency of emission	Conducted limit (dBµV)					
(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: 24.3 °C

Humidity: 58.3 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

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



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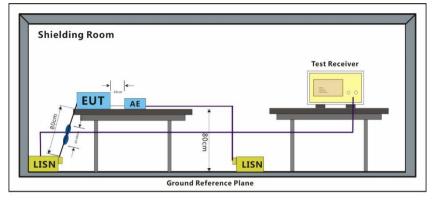
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7.1.3 Test Setup Diagram



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



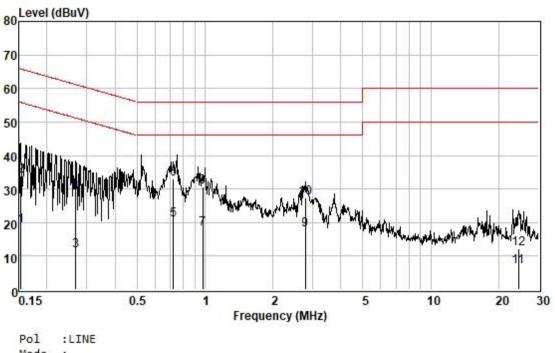
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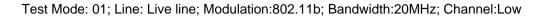
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Mode : Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0,153	9.46	0.06	9.54	19.06	55.82	-36.76	Average
2	0.153	24.23	0.06	9.54	33.83	65.82	-31.99	QP
3	0.269	2.02	0.06	9.57	11.65	51.16	-39.51	Average
4	0.269	19.19	0.06	9.57	28.82	61.16	-32.34	QP
5	0.724	11.25	0.07	9.59	20.91	46.00	-25.09	Average
6	0.724	23.23	0.07	9.59	32.89	56.00	-23.11	QP
7	0.979	8.39	0.07	9.60	18.06	46.00	-27.94	Average
8	0.979	21.00	0.07	9.60	30.67	56.00	-25.33	QP
9	2.779	8.17	0.14	9.61	17.92	46.00	-28.08	Average
10	2.779	17.54	0.14	9.61	27.29	56.00	-28.71	QP
11	24.400	-3.49	0.40	9.79	6.70	50.00	-43.30	Average
12	24.400	1.95	0.40	9.79	12.14	60.00	-47.86	QP



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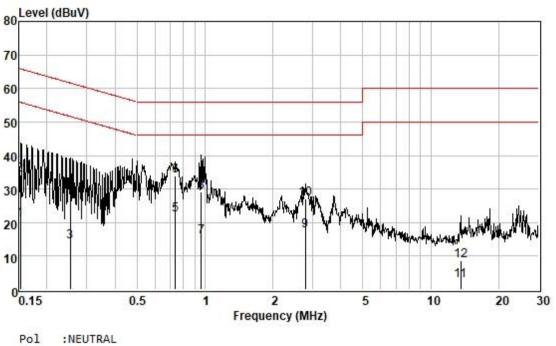
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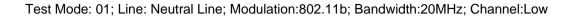
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Pol :NEUTRAL Mode : Model :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.152	11.14	0.06	9.53	20.73	55.87	-35.14	Average
2	0.152	24.63	0.06	9.53	34.22	65.87	-31.65	QP
3	0.253	4.54	0.06	9.56	14.16	51.64	-37.48	Average
4	0.253	19.89	0.06	9.56	29.51	61.64	-32.13	QP
5	0.739	12.51	0.07	9.59	22.17	46.00	-23.83	Average
6	0.739	24.21	0.07	9.59	33.87	56.00	-22.13	QP
7	0.963	6.10	0.07	9.59	15.76	46.00	-30.24	Average
8	0.963	19.54	0.07	9.59	29.20	56.00	-26.80	QP
9	2.779	7.78	0.14	9.61	17.53	46.00	-28.47	Average
10	2.779	17.24	0.14	9.61	26.99	56.00	-29.01	QP
11	13.551	-7.58	0.29	9.84	2.55	50.00	-47.45	Average
12	13.551	-1.59	0.29	9.84	8.54	60.00	-51.46	QP



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7.2 Conducted Peak Output Power

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

Limit:

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

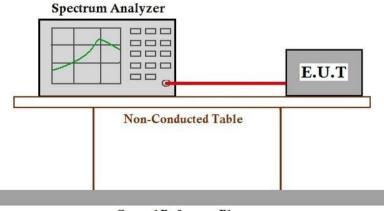
7.2.1 E.U.T. Operation

Operating Environment:						
Temperature:	24.6 °C	Humidity:	46.1 % RH	Atmospheric Pressure:	1005	mbar

7.2.2 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). Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



Ground Reference Plane



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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

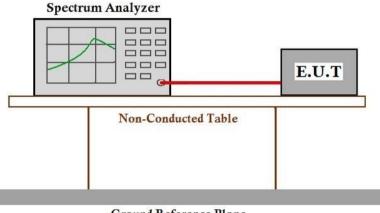
7.3.1 E.U.T. Operation

Operating Environment:						
Temperature:	24.6 °C	Humidity:	46.1 % 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). Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	≤8dBm in any 3 kHz band during any time interval of continuous transmission

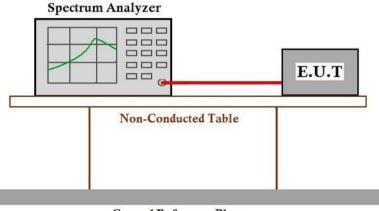
7.4.1 E.U.T. Operation

Operating Environment:					
Temperature:	24.6 °C	Humidity:	46.1 % 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). Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Band Edges Measurement

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

Limit:

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

7.5.1 E.U.T. Operation

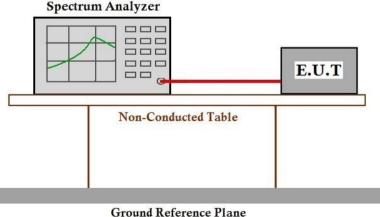
Operating Environment:

Temperature:	24.6 °C	Humidity:	46.1 % RH	Atmospheric Pressure:	1005	mhar
remperature.	24.0 0	riumuny.	4 0.1 /0101	Aunospherie i ressure.	1000	mbai

7.5.2 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). Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Giouna Reference I land



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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

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

Limit:

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

7.6.1 E.U.T. Operation

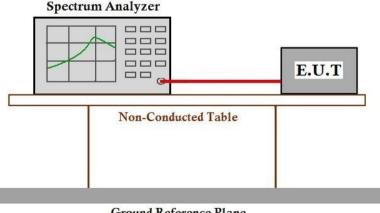
Operating Environment:

Temperature:	24.6 °C	Humidity:	46.1 % RH	Atmospheric Pressure:	1005	mbar
romporataro.	21.0 0	riannanty.	10.1 /0101		1000	mou

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). Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



Ground Reference Plane



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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
Test 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 guasi-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 Enviror						
Temperature:	22.0 °C	Humidity:	60.5 % RH	Atmospheric Pressure:	1020	mbar

7.7.2 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). Only the data of worst case is recorded in the report.



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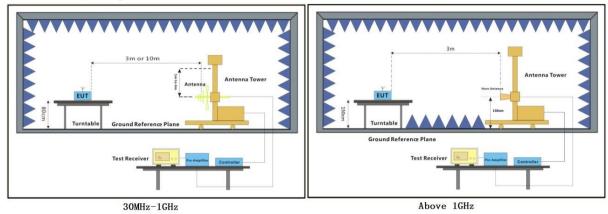
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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



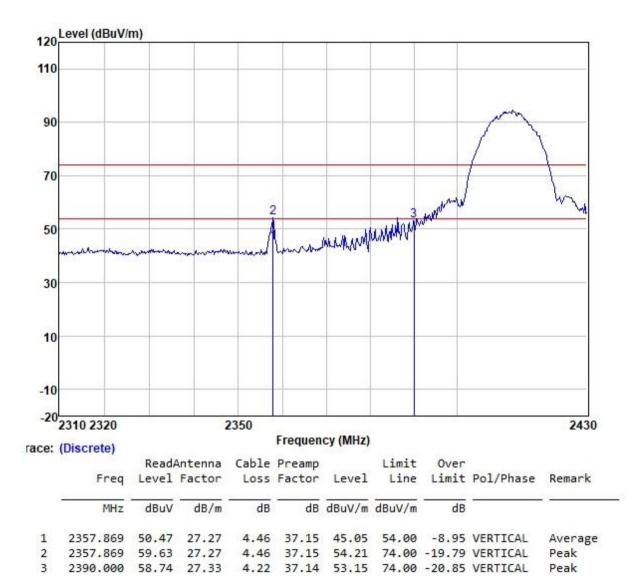
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low





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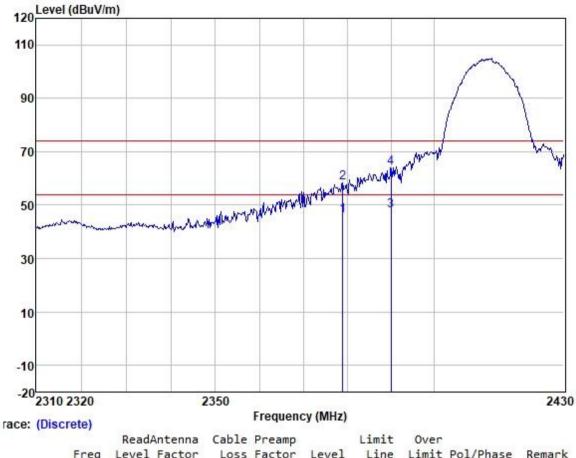
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2378.979	51.65	27.31	4.27	37.14	46.09	54.00	-7.91	HORIZONTAL	Average
2	2378.979	63.83	27.31	4.27	37.14	58.27	74.00	-15.73	HORIZONTAL	Peak
3	2390.000	53.59	27.33	4.22	37.14	48.00	54.00	-6.00	HORIZONTAL	Average
4	2390.000	69.60	27.33	4.22	37.14	64.01	74.00	-9.99	HORIZONTAL	Peak



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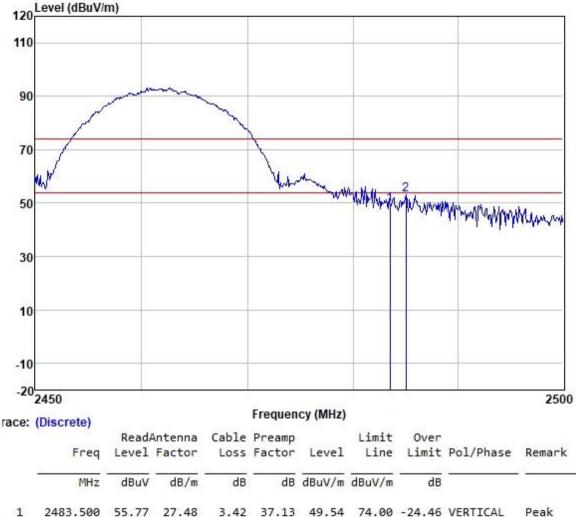
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



2 2484.994 59.58 27.48 3.42 37.13 53.35 74.00 -20.65 VERTICAL Peak



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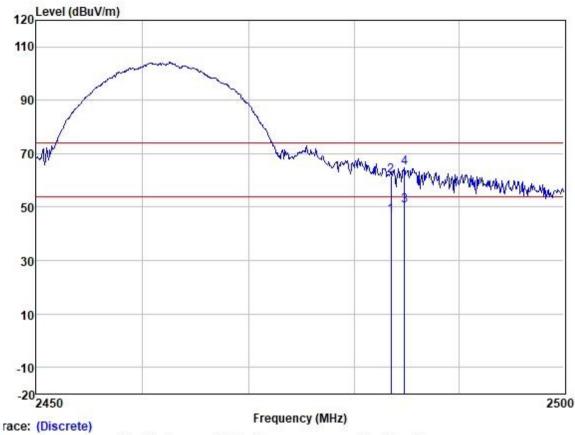
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



		ReadAntenna		Cable Preamp		Limit		Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	<u></u>	<u>91.</u>	
1	2483.500	53.17	27.48	3.42	37.13	46.94	54.00	-7.06	HORIZONTAL	Average	
2	2483.500	67.83	27.48	3.42	37.13	61.60	74.00	-12.40	HORIZONTAL	Peak	
3	2484.793	56.97	27.48	3.42	37.13	50.74	54.00	-3.26	HORIZONTAL	Average	
4	2484.793	70.94	27.48	3.42	37.13	64.71	74.00	-9.29	HORIZONTAL	Peak	



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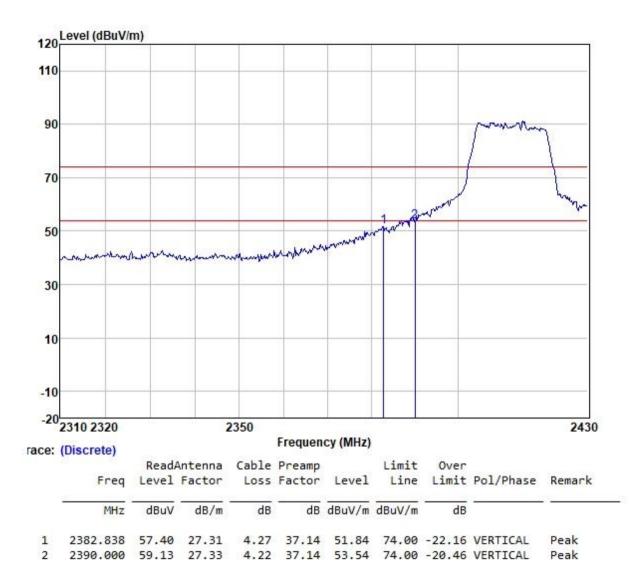
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low





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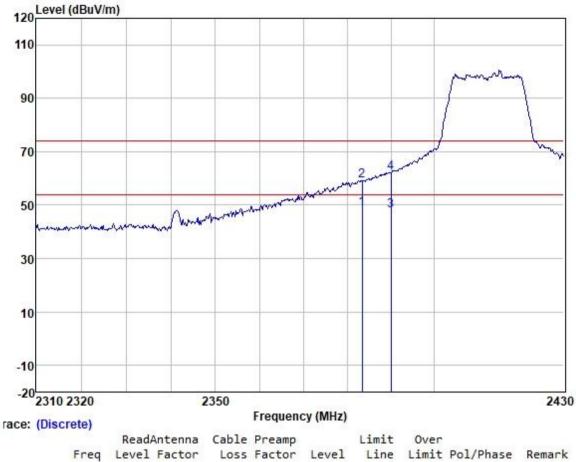
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



	Freq	Level	Factor	LOSS	Factor	Level	Line	LIMIC	POI/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2383.321	54.34	27.31	4.27	37.14	48.78	54.00	-5.22	HORIZONTAL	Average	
2	2383.321	64.72	27.31	4.27	37.14	59.16	74.00	-14.84	HORIZONTAL	Peak	
3	2390.000	53.48	27.33	4.22	37.14	47.89	54.00	-6.11	HORIZONTAL	Average	
4	2390.000	67.88	27.33	4.22	37.14	62.29	74.00	-11.71	HORIZONTAL	Peak	



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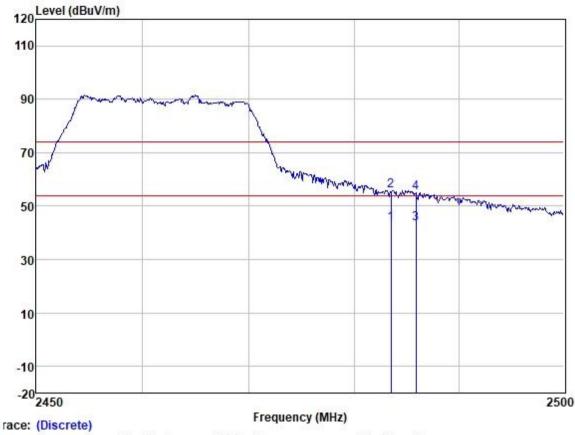
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	S <u></u>	31
1	2483.500	49.79	27.48	3.42	37.13	43.56	54.00	-10.44	VERTICAL	Average
2	2483.500	61.84	27.48	3.42	37.13	55.61	74.00	-18.39	VERTICAL	Peak
3	2485.848	49.65	27.48	3.42	37.13	43.42	54.00	-10.58	VERTICAL	Average
4	2485.848	61.17	27.48	3.42	37.13	54.94	74.00	-19.06	VERTICAL	Peak



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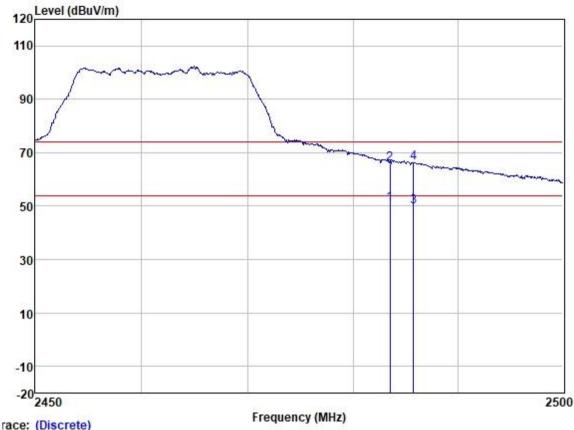
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	(01001010)									
	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		<u>81</u>
1	2483.500	57.11	27.48	3.42	37.13	50.88	54.00	-3.12	HORIZONTAL	Average
2	2483.500	72.24	27.48	3.42	37.13	66.01	74.00	-7.99	HORIZONTAL	Peak
3	2485.747	56.13	27.48	3.42	37.13	49.90	54.00	-4.10	HORIZONTAL	Average
4	2485.747	72.60	27.48	3.42	37.13	66.37	74.00	-7.63	HORIZONTAL	Peak



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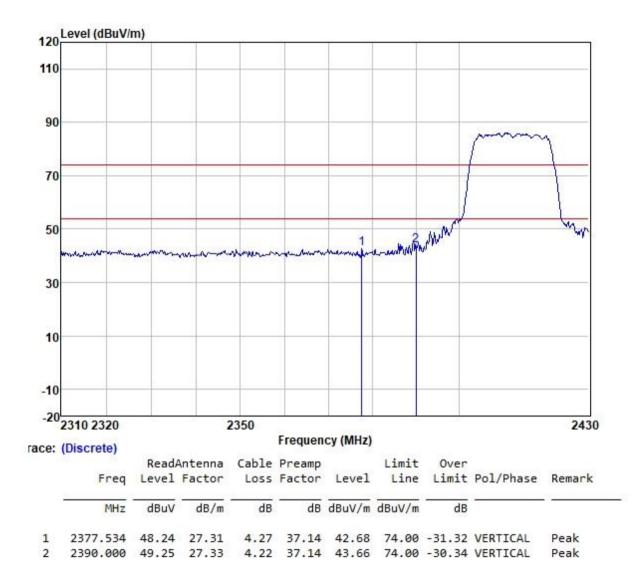
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low





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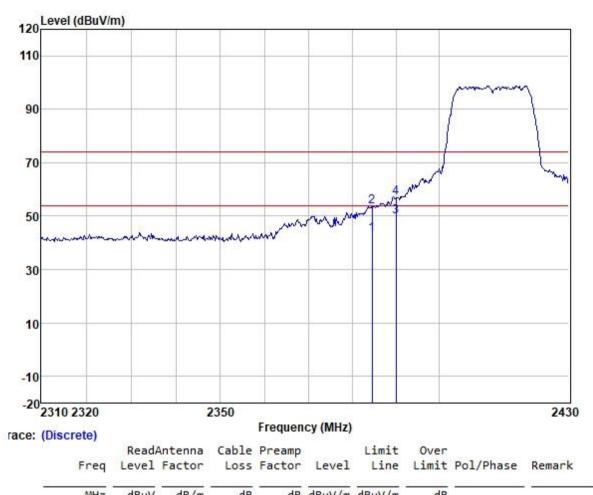
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



	MHZ	dBuV	dB/m	aB	dB	dBuV/m	dBuV/m	dB		
1	2384.528	48.78	27.33	4.22	37.14	43.19	54.00	-10.81	HORIZONTAL	Average
2	2384.528	59.24	27.33	4.22	37.14	53.65	74.00	-20.35	HORIZONTAL	Peak
3	2390.000	55.56	27.33	4.22	37.14	49.97	54.00	-4.03	HORIZONTAL	Average
4	2390.000	62.36	27.33	4.22	37.14	56.77	74.00	-17.23	HORIZONTAL	Peak



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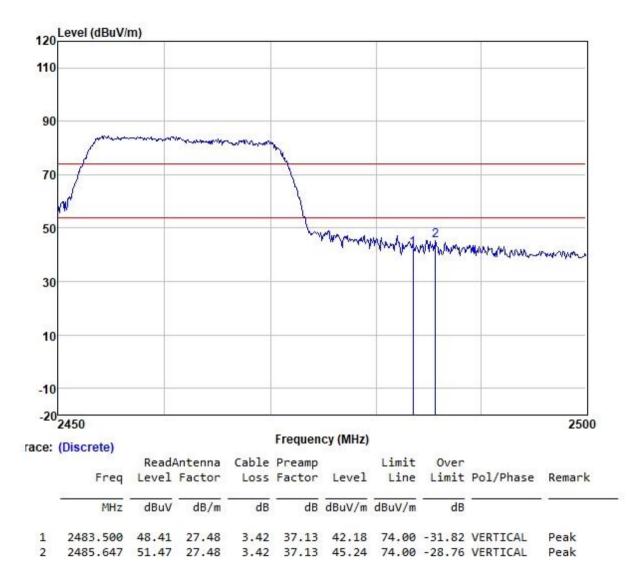
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High





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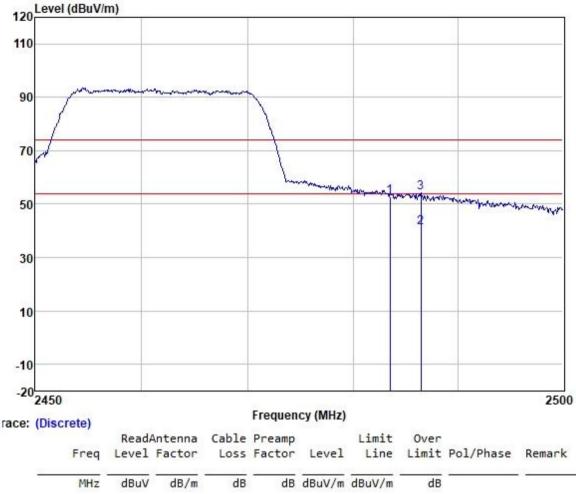
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



1	2483.500	59.07	27.48	3.42	37.13	52.84	74.00	-21.16	HORIZONTAL	Peak
2	2486.450	47.64	27.48	3.42	37.13	41.41	54.00	-12.59	HORIZONTAL	Average
3	2486.450	60.34	27.48	3.42	37.13	54.11	74.00	-19.89	HORIZONTAL	Peak



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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
Test Distance:	3 m
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:	23.0 °C	Humidity:	62.0 % RH	Atmospheric Pressure: 1020 mbar				

7.8.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	Description

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 Final test 00 rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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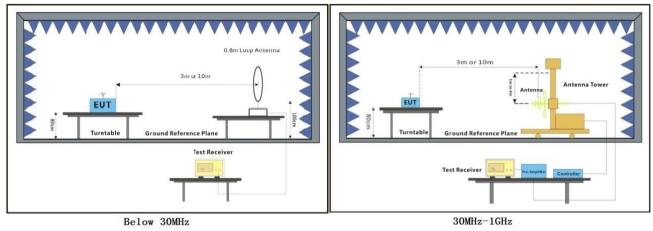
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7.8.3 Test Setup Diagram



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.



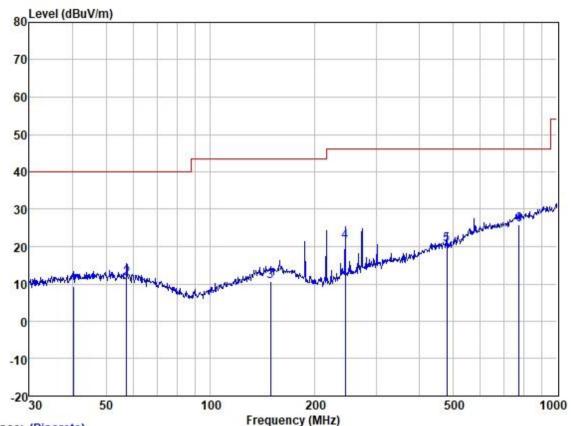
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

:	SGS
:	
:	
:	
:	ТХ
	: : : : :

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.276	22.29	13.03	1.10	27.18	9.24	40.00	-30.76	HORIZONTAL	QP
2	57.191	24.22	13.19	1.22	27.16	11.47	40.00	-28.53	HORIZONTAL	QP
3	148.963	21.97	13.32	2.22	26.84	10.67	43.50	-32.83	HORIZONTAL	QP
4	245.090	33.72	11.37	2.87	26.64	21.32	46.00	-24.68	HORIZONTAL	QP
5	480.528	26.94	17.18	4.34	27.91	20.55	46.00	-25.45	HORIZONTAL	QP
6	776.878	25.77	22.19	6.08	28.05	25.99	46.00	-20.01	HORIZONTAL	QP



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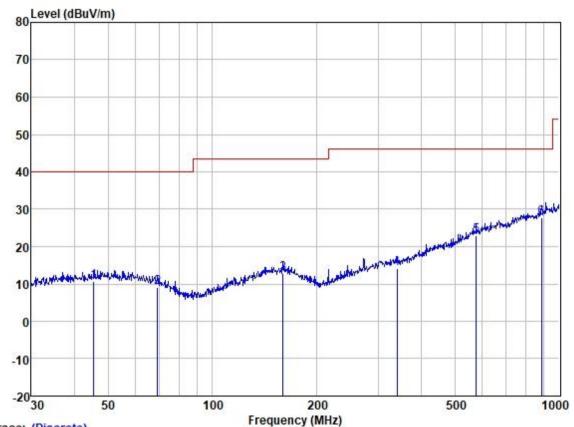
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

:	SGS
:	
:	
:	
:	ТХ
	: : : : :

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		·······
1	45.375	23.29	13.44	1.12	27.17		40.00	-29.32	VERTICAL	QP
2	69.357	23.32	11.42	1.40	27.13	9.01	40.00	-30.99	VERTICAL	QP
3	159.784	24.05	13.33	2.33	26.80	12.91	43.50	-30.59	VERTICAL	QP
4	340.782	23.38	14.22	3.50	26.86	14.24	46.00	-31.76	VERTICAL	QP
5	576.644	27.07	19.08	5.02	28.18	22.99	46.00	-23.01	VERTICAL	QP
6	890.728	25.63	23.22	6.86	27.86	27.85	46.00	-18.15	VERTICAL	QP



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7.9 Radiated Spurious Emissions Above 1GHz

	Frequency (MHz	•	Field strength	Measureme
I	Limit:			
-	Test Method:	ANSI (C63.10 (2013) Section 6.6	
-	Test Requirement	47 CF	R Part 15, Subpart C 15.205 & 15.20	09

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature:	24.8 °C	Humidity:	64.0 % RH	Atmospheric Pressure:	1005	mbar
	=	i rannany.	•• ,•			

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). Only the data of worst case is recorded in the report.

Ground Reference Plane Test Receiver

Above 1GHz



7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



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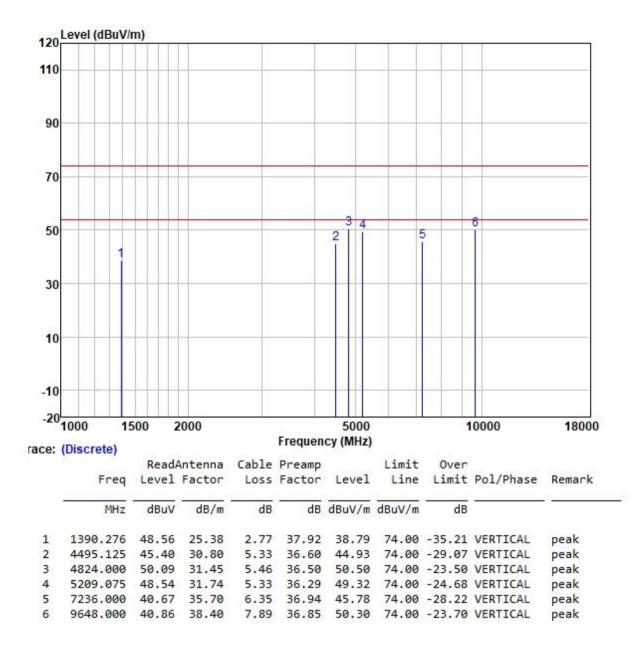
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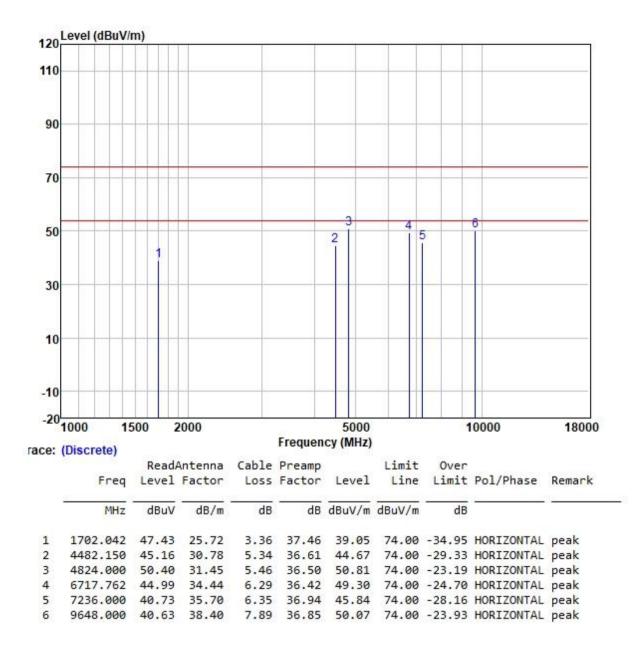
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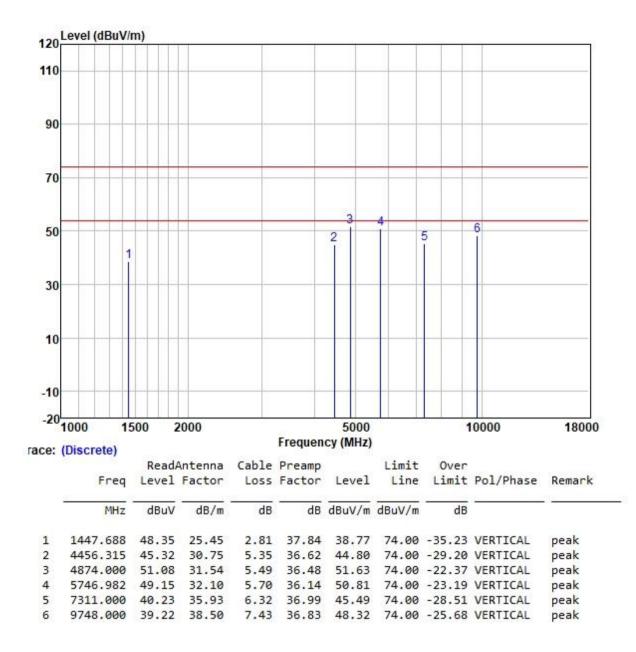
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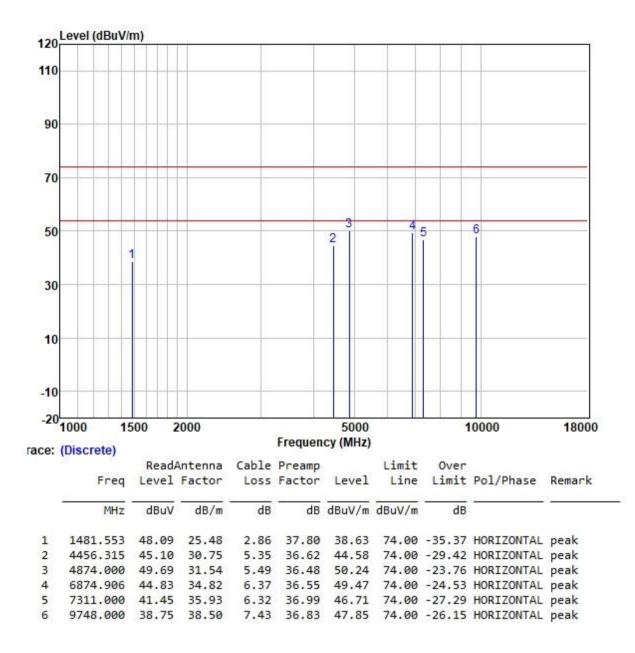
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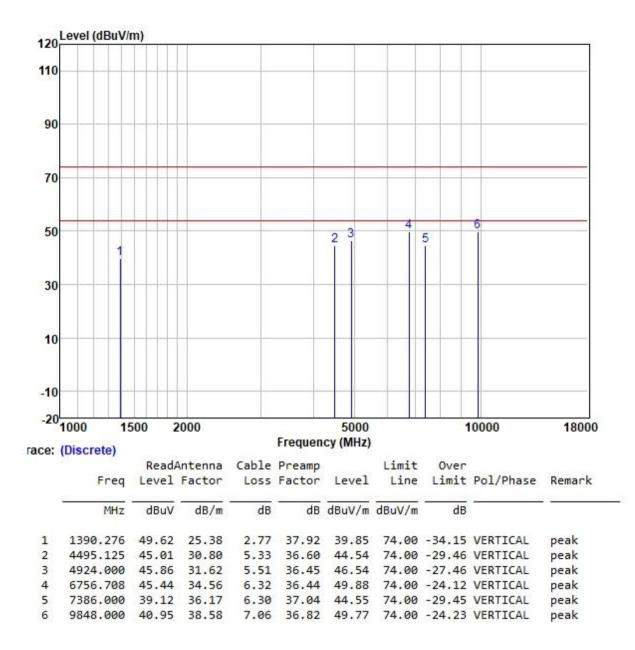
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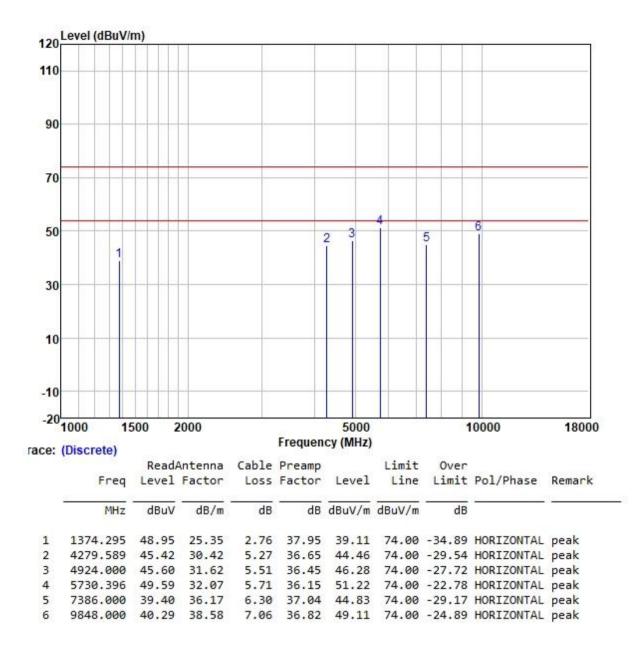
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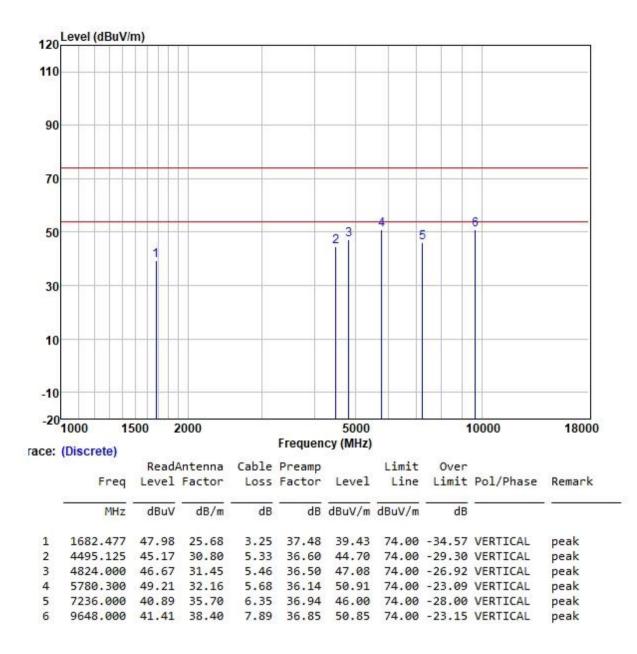
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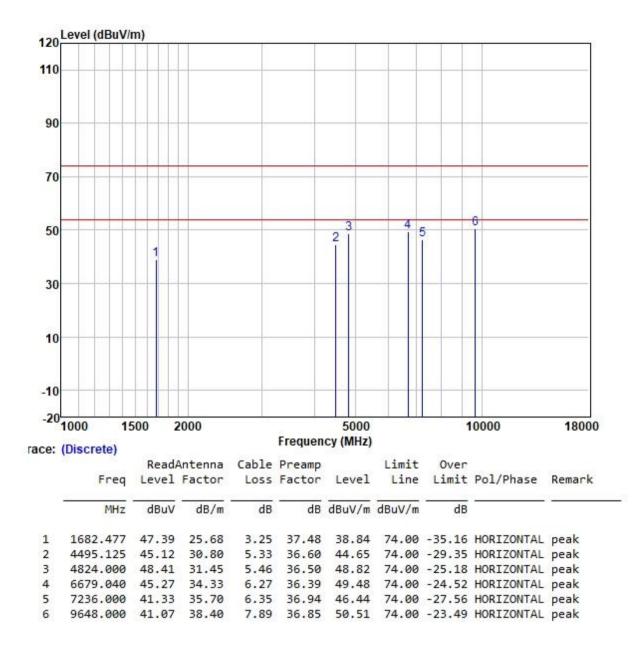
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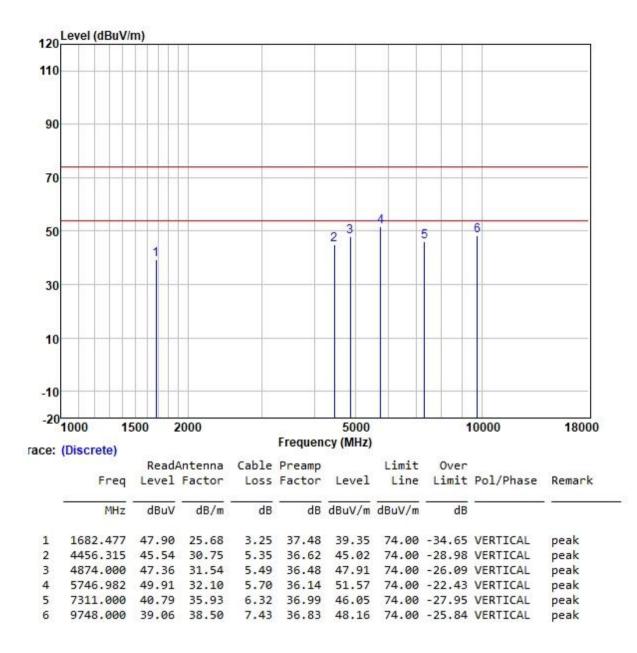
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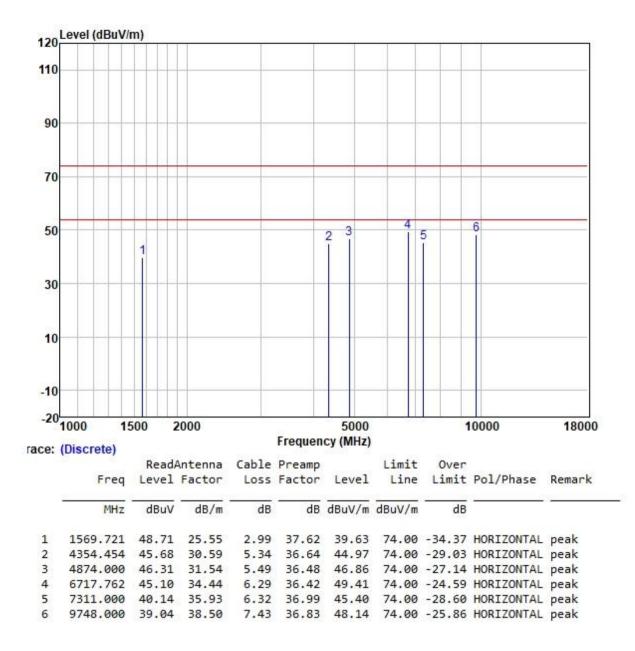
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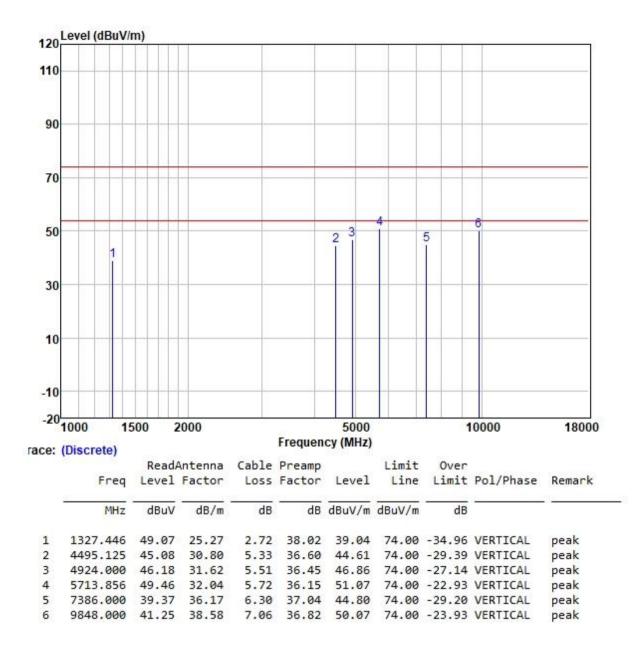
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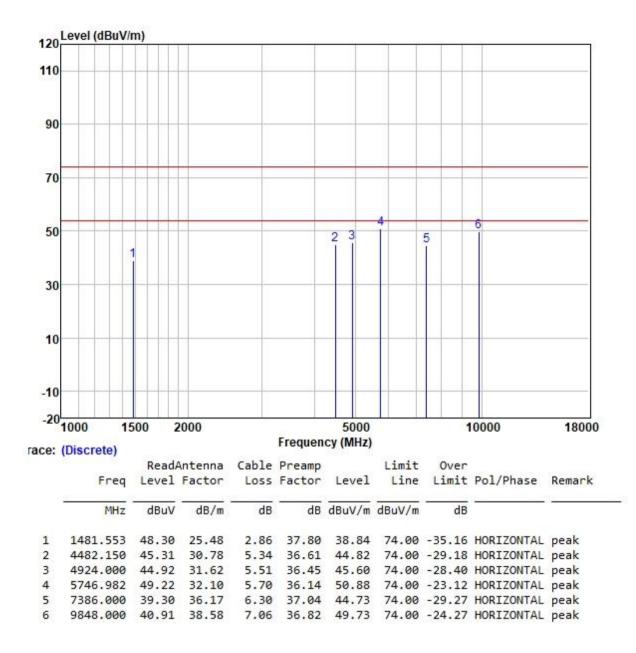
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High





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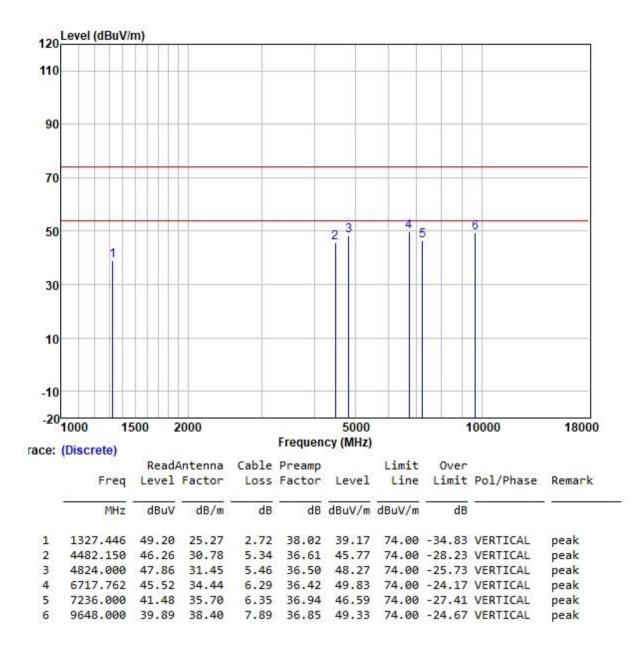
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Report No.: GZCR220300029202 Page: 57 of 91

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





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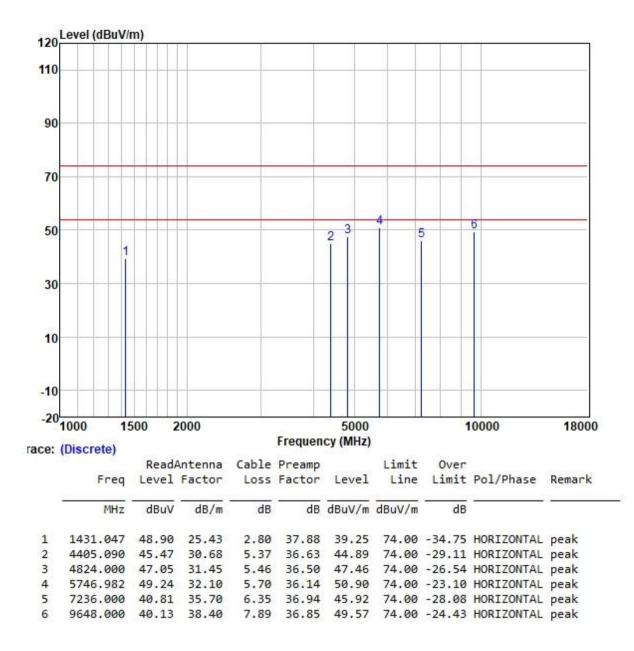
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Report No.: GZCR220300029202 Page: 58 of 91

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





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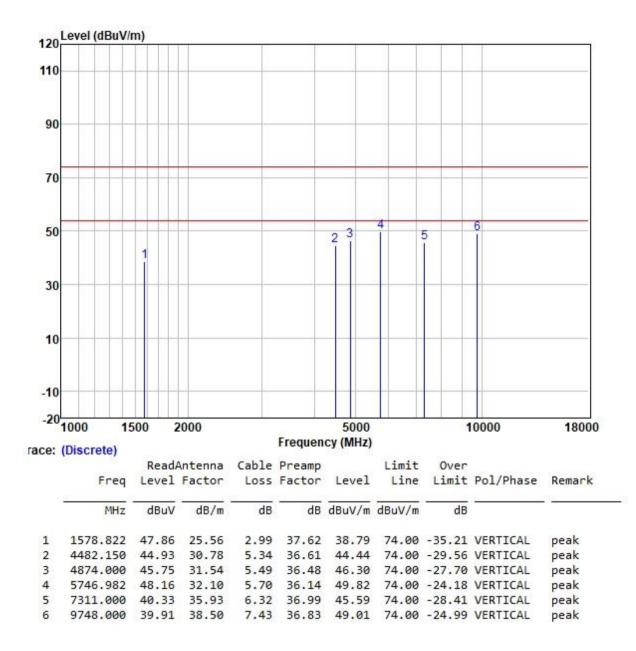
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle





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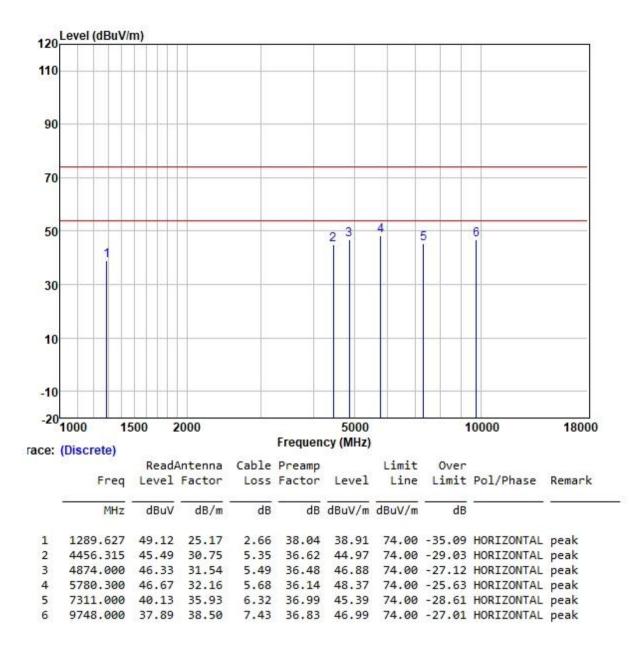
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle





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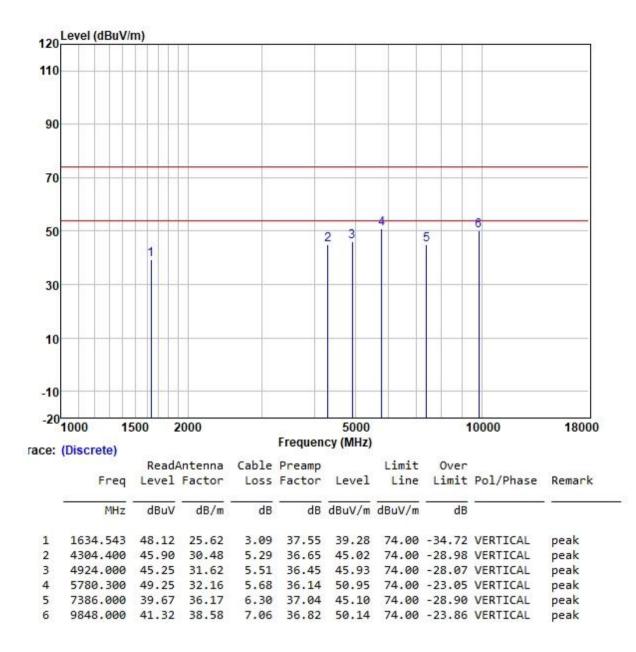
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High





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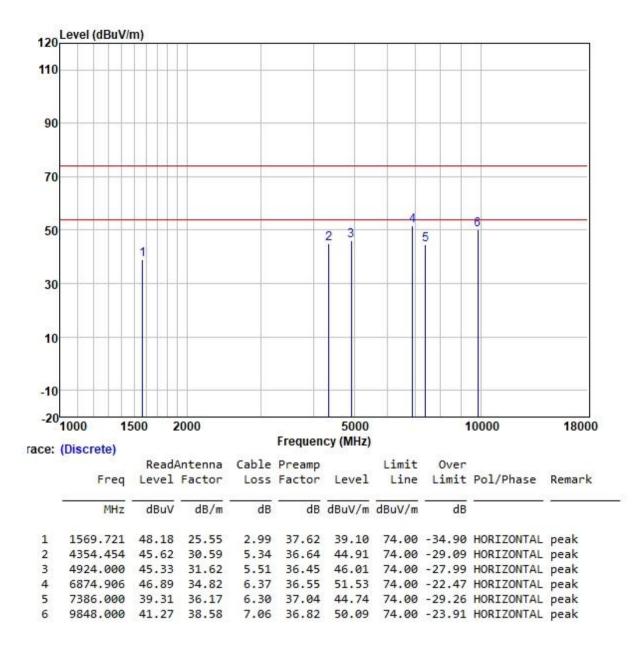
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Test Setup Photo 8

Refer to Setup Photos for GZCR220300029202



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EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2203000292HS



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10 Appendix

- 1.1 6dB BW
- 1.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdiet
				Result	Limit	Verdict
802.11b	SISO	2412	1	8.158	>=0.5	Pass
		2437	1	8.175	>=0.5	Pass
		2462	1	8.174	>=0.5	Pass
	SISO	2412	1	16.482	>=0.5	Pass
802.11g		2437	1	16.487	>=0.5	Pass
		2462	1	16.483	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.791	>=0.5	Pass
		2437	1	17.796	>=0.5	Pass
		2462	1	17.783	>=0.5	Pass



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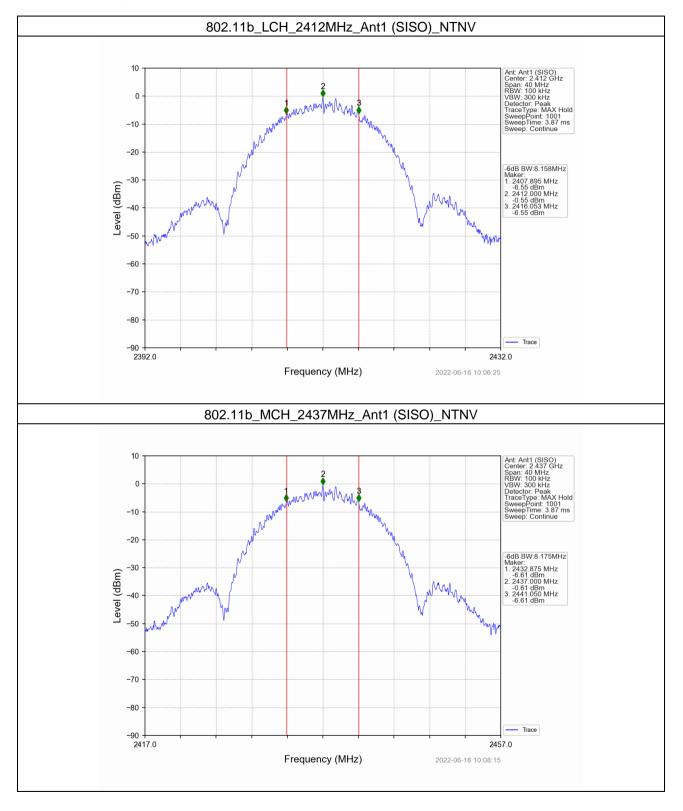
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1.1.2 Test Graph



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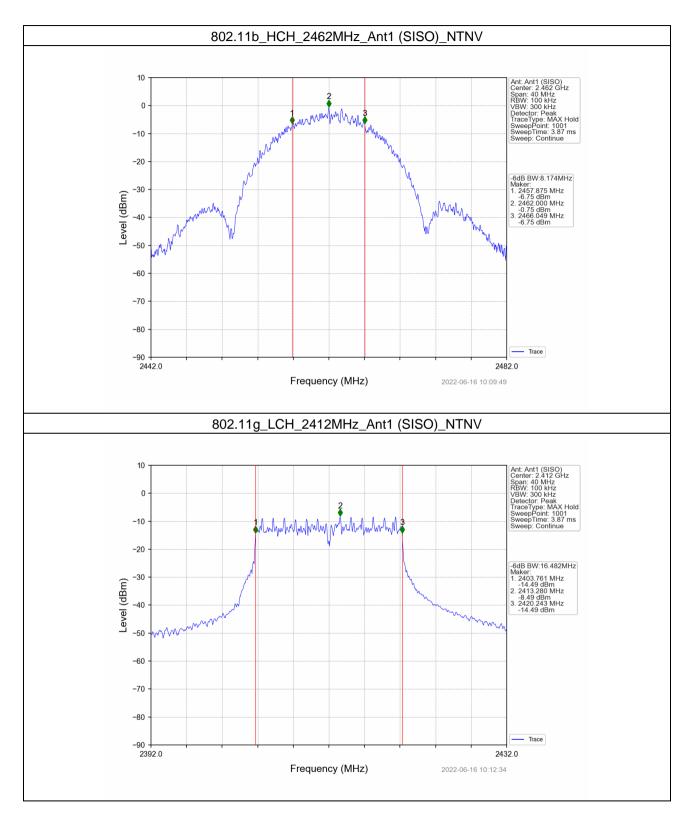
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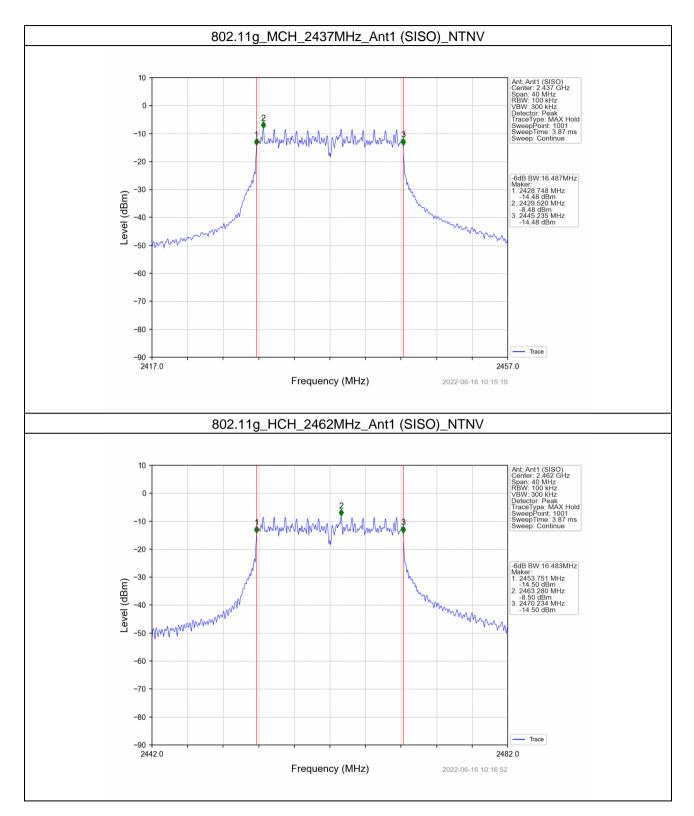
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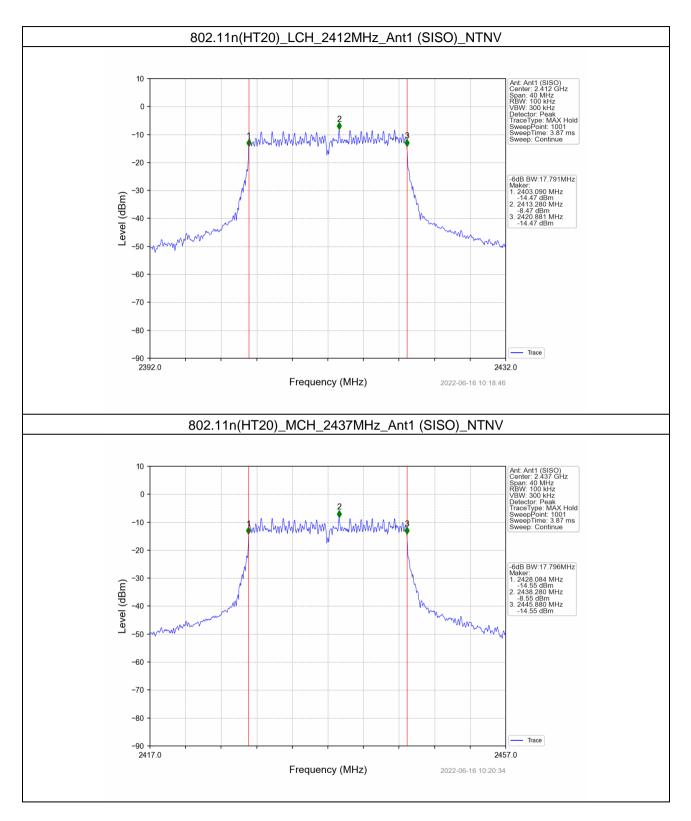
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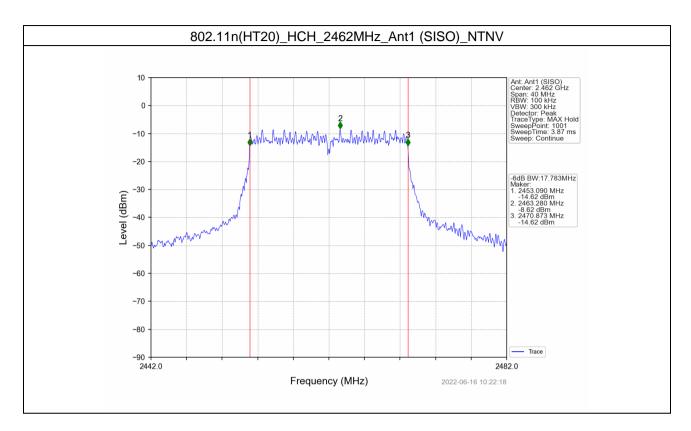
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Maximum Peak Conduc	Vardiat	
			ANT1	Limit	Verdict
802.11b	SISO	2412	12.65	<=30	Pass
		2437	12.61	<=30	Pass
		2462	12.50	<=30	Pass
802.11g	SISO	2412	10.56	<=30	Pass
		2437	10.65	<=30	Pass
		2462	10.54	<=30	Pass
802.11n (HT20)	SISO	2412	10.98	<=30	Pass
		2437	10.97	<=30	Pass
		2462	10.91	<=30	Pass
Note1: Anter	na Gain: Ar		10.91	<=30	F 055

3. Maximum Power Spectral Density

3.1 PSD

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PS	Vendiet	
			ANT1	Limit	Verdict
802.11b	SISO	2412	-14.92	<=8	Pass
		2437	-15.25	<=8	Pass
		2462	-15.03	<=8	Pass
802.11g	SISO	2412	-22.85	<=8	Pass
		2437	-22.85	<=8	Pass
		2462	-22.65	<=8	Pass
802.11n (HT20)	SISO	2412	-22.22	<=8	Pass
		2437	-22.42	<=8	Pass
		2462	-22.13	<=8	Pass



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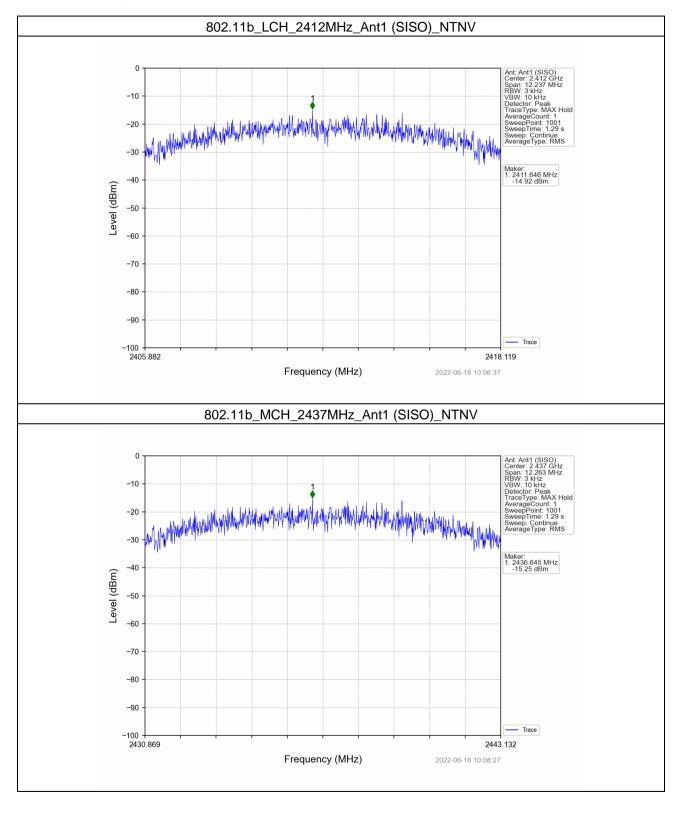
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3.1.2 Test Graph



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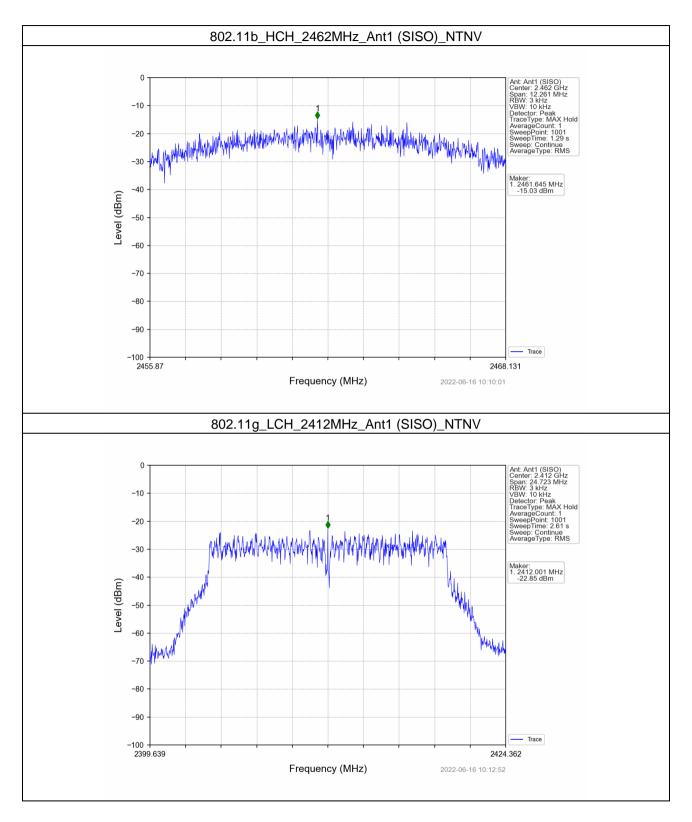
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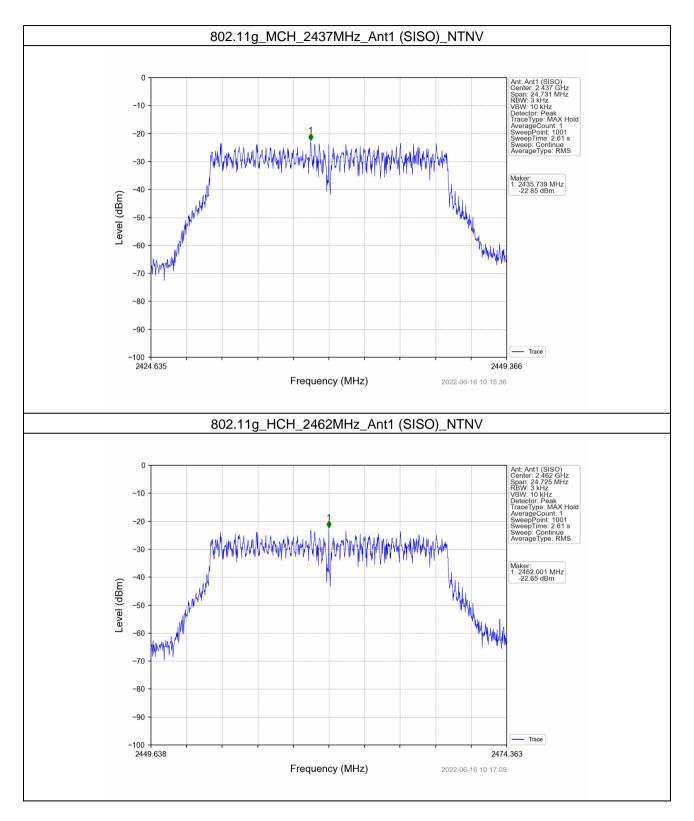
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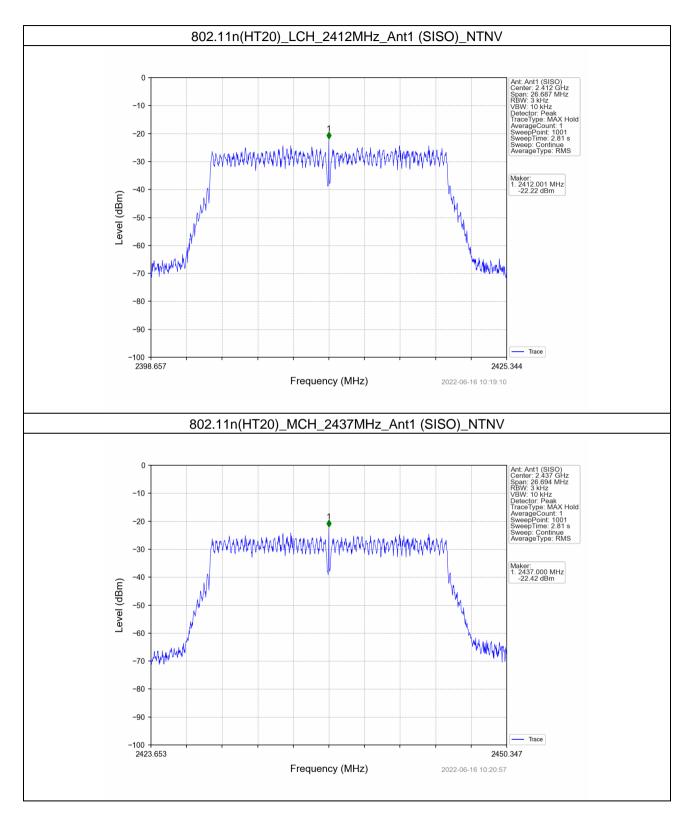
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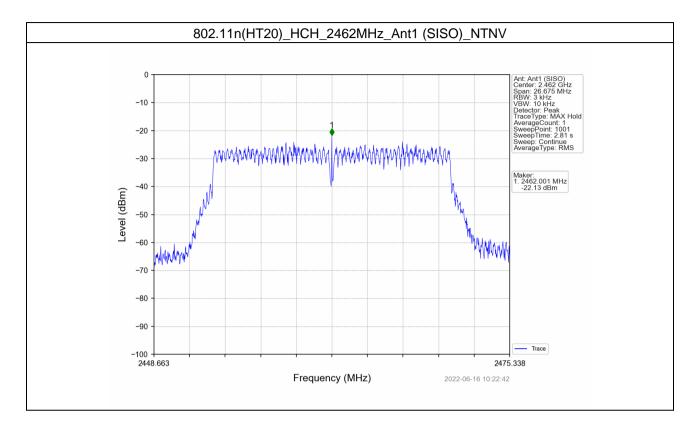
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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	
802.11b	SISO	2412	1	-0.67	
		2437	1	-0.69	
		2462	1	-0.88	
802.11g	SISO	2412	1	-8.48	
		2437	1	-8.54	
		2462	1	-8.62	
802.11n (HT20)	SISO	2412	1	-8.50	
		2437	1	-8.57	
		2462	1	-8.59	

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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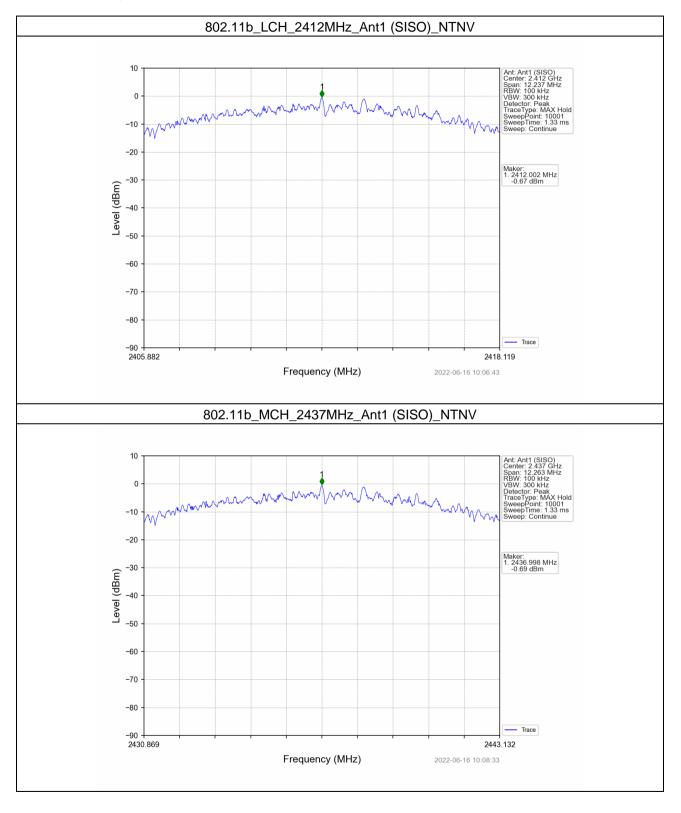
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4.1.2 Test Graph



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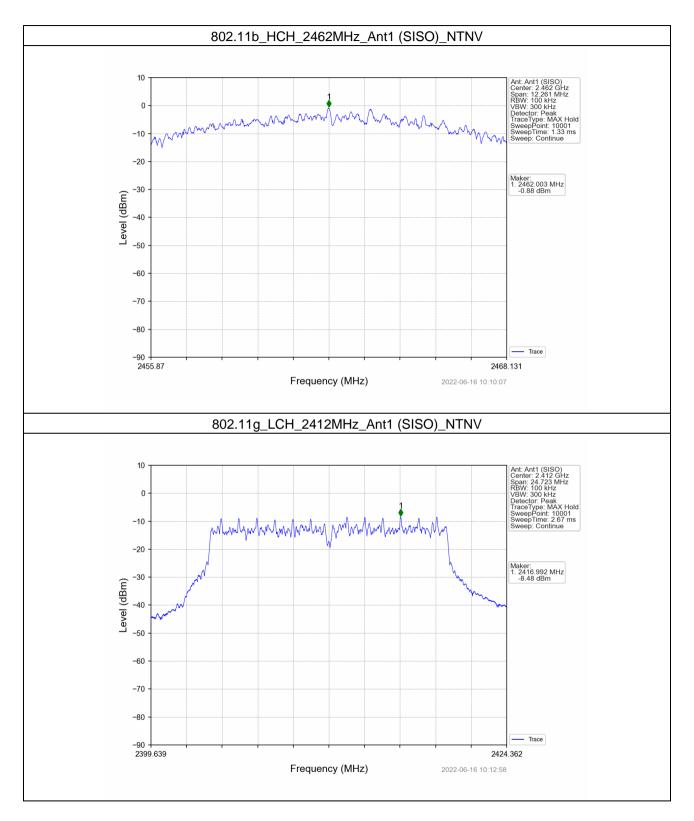
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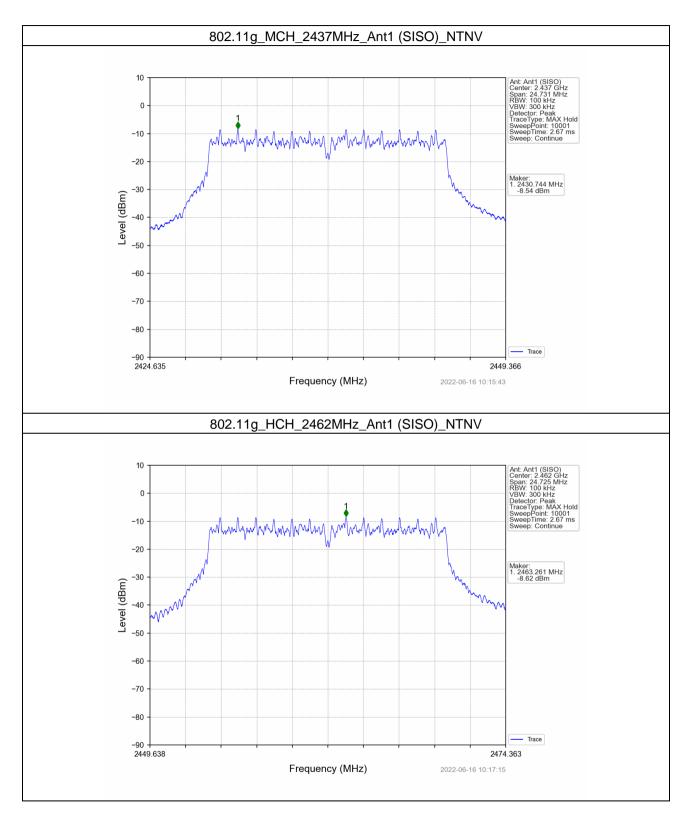
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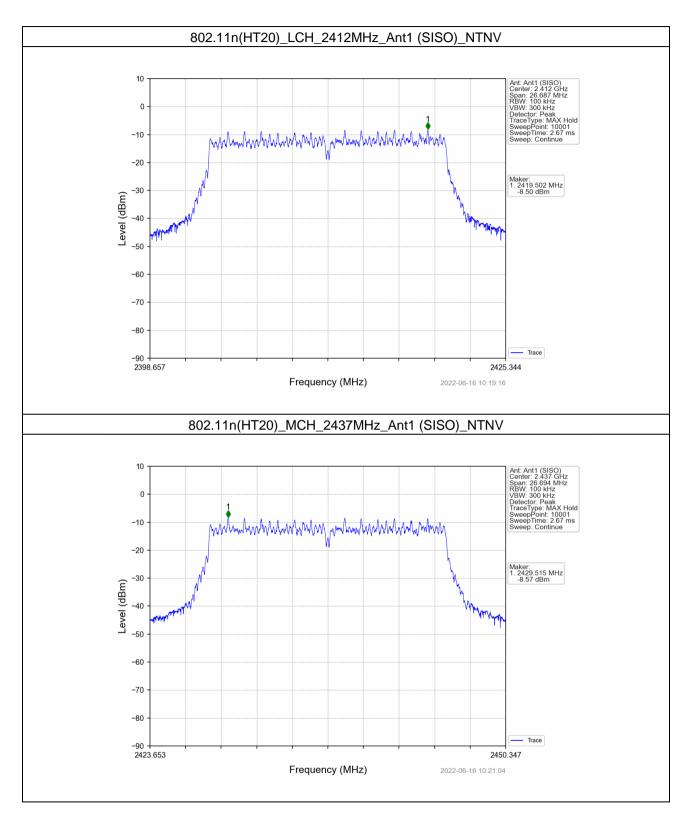
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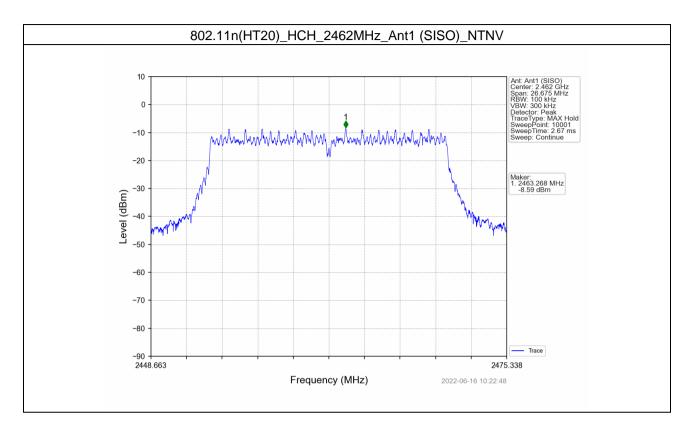
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4.2 CSE

4.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.67	-20.67	Pass
		2437	1	-0.67	-20.67	Pass
		2462	1	-0.67	-20.67	Pass
802.11g	SISO	2412	1	-8.48	-28.48	Pass
		2437	1	-8.48	-28.48	Pass
		2462	1	-8.48	-28.48	Pass
802.11n (HT20)	SISO	2412	1	-8.50	-28.50	Pass
		2437	1	-8.50	-28.50	Pass
		2462	1	-8.50	-28.50	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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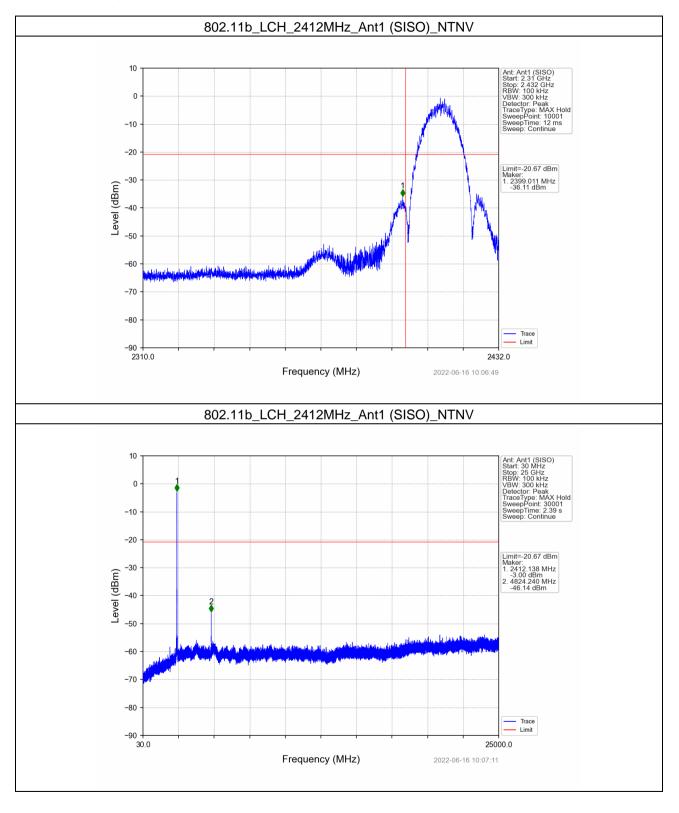
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4.2.2 Test Graph





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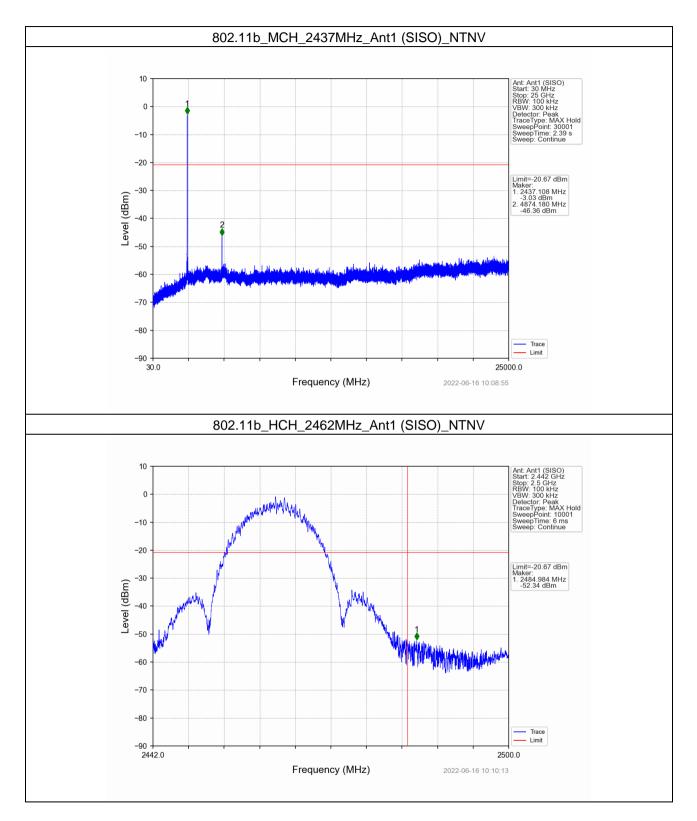
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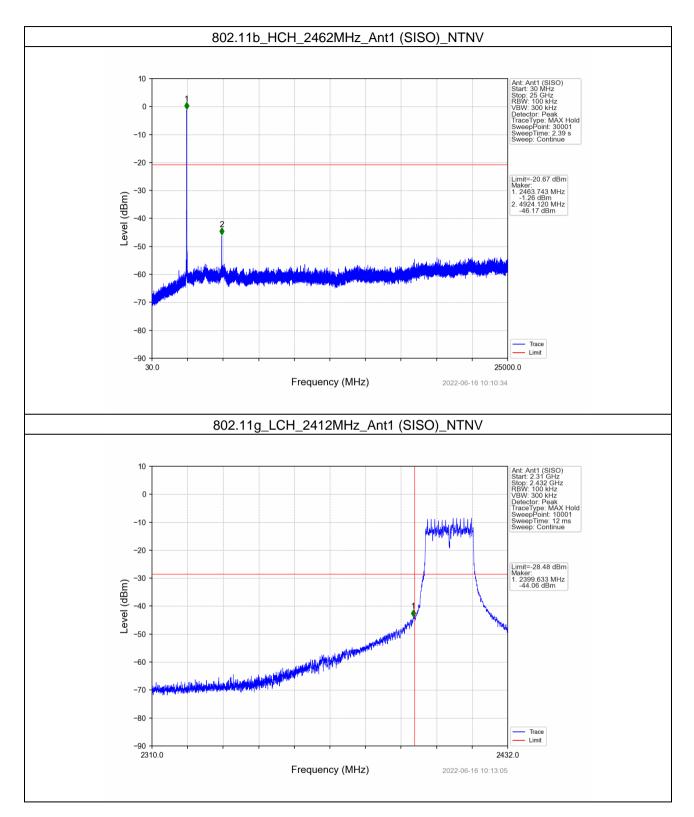
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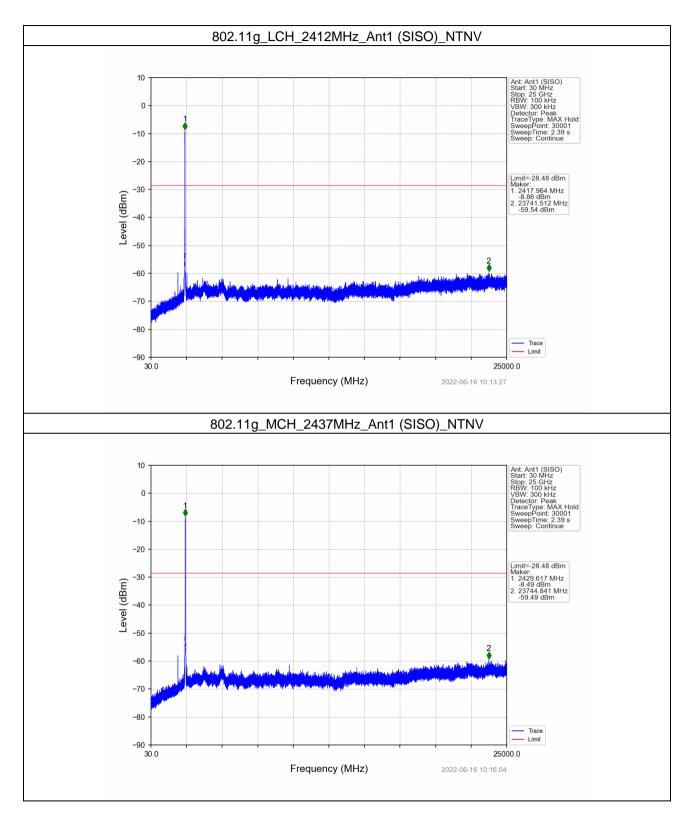
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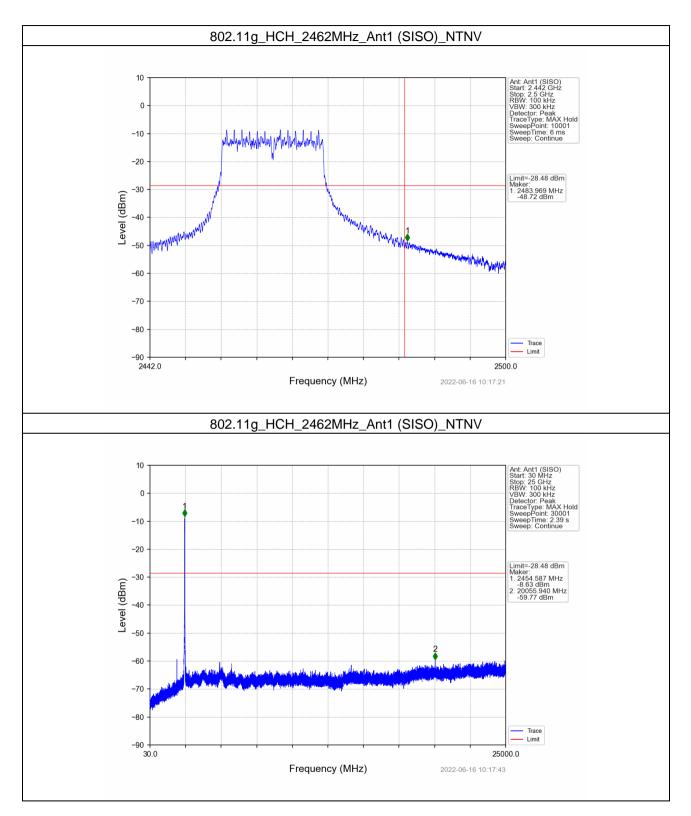
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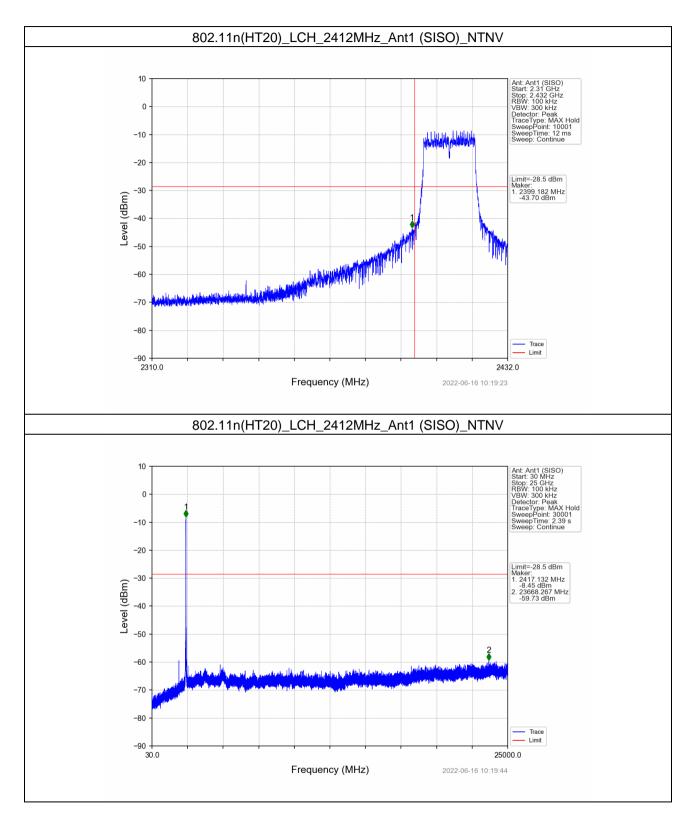
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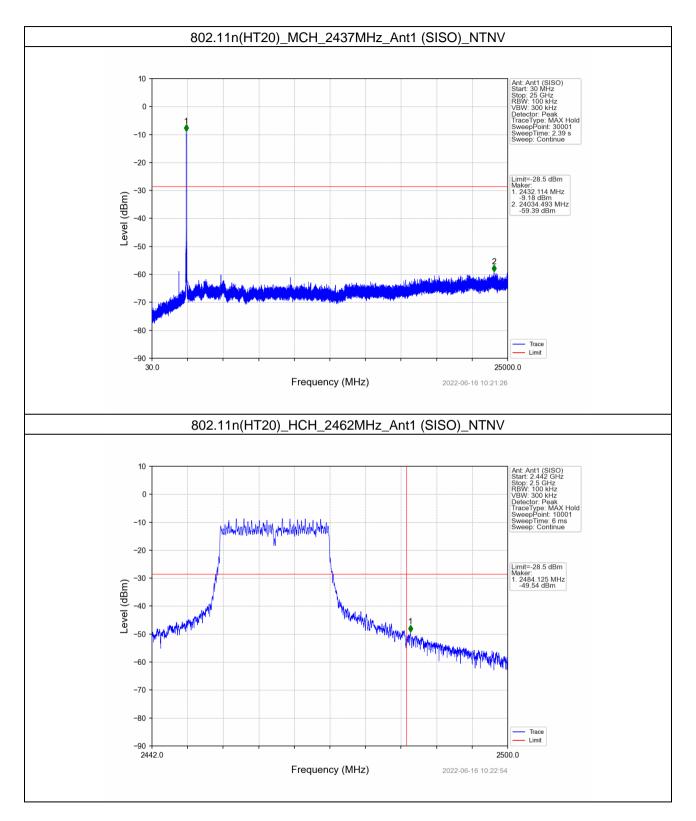
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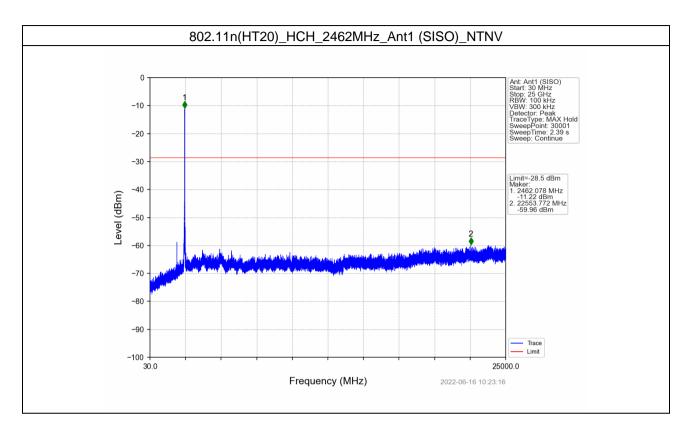
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