

EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 1 of 98 FCC ID: 2A86W-B221

TEST REPORT

Application No.: GZCR2310001030AT

Applicant: Shenzhen Raycloud Technology Co.,Ltd

Address of Applicant: Bulong Road No.663, Building F, 4th Floor, 411A, Dafabu Community,

Bantian Street, Longgang District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen Raycloud Technology Co.,Ltd

Address of Manufacturer: Bulong Road No.663, Building F, 4th Floor, 411A, Dafabu Community,

Bantian Street, Longgang District, Shenzhen, Guangdong, China

Factory: Shenzhen Raycloud Technology Co.,Ltd

Address of Factory: Bulong Road No.663, Building F, 4th Floor, 411A, Dafabu Community,

Bantian Street, Longgang District, Shenzhen, Guangdong, China

Equipment Under Test (EUT):

EUT Name: 4K/5MP Battery Wireless Camera

Model No.: B221, B220 ¤

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

actually tested and which were electrically identical.

Trade Mark:

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

Date of Receipt: 2023-10-09

Date of Test: 2023-11-06 to 2024-03-28

Date of Issue: 2024-04-07

Test Result: Pass*

Jerry Chan Manager

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



EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 2 of 98

	Revision Record							
Version	Version Report No. Date Remark							
01	GZCR231000103002	2024-04-07	Original					

Authorized for issue by		
	Kevin Zhang	
	Kevin Zhang/Project Engineer	-
	vius cui	
	Vico Cui/Reviewer	-



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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 3 of 98

Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Resul						
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 11.12	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			

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.

¤ Declaration of EUT Family Grouping:

Model No.: B221, B220

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the resolution ratio.

Therefore, only one model B221 with more resolution ratio were tested in this report.



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EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 4 of 98

3 **Contents**

			Page
1	Cove	er Page	1
2	Test	Summary	3
3	Conf	tents	Δ
4	Gene	eral Information	
	4.1	Details of E.U.T.	
	4.2	Description of Support Units	
	4.3 4.4	Measurement Uncertainty Test Location	
	4.4 4.5	Test Facility	
	4.6	Deviation from Standards	
	4.7	Abnormalities from Standard Conditions	
5		pment List	
J	Equi	pinent List	3
6	Radi	o Spectrum Technical Requirement	12
	6.1	Antenna Requirement	12
	6.1.1	·	
	6.1.2	Conclusion	12
7	Radi	o Spectrum Matter Test Results	13
	7.1	Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1	· · · · · · · · · · · · · · · · · · ·	
	7.1.2	·	
	7.1.3	·	
	7.1.4	Measurement Procedure and Data	14
	7.2	Conducted Peak Output Power	
	7.2.1	·	
	7.2.2	·	
	7.2.3	1 0	
	7.2.4 7.3	Measurement Procedure and Data Minimum 6dB Bandwidth	
	7.3.1		
		Test Mode Description	
	7.3.3	·	
	7.3.4		
	7.4	Power Spectrum Density	21
	7.4.1	·	
	7.4.2	I I	
	7.4.3	1 5	
	7.4.4		
	7.5	Conducted Band Edges Measurement	
	7.5.1 7.5.2	·	
	7.5.2	I I	
	0.0	- Cot Cotap Diagram	∠¬



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EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 5 of 98

	7.5.4	Measurement Procedure and Data	24
7	'.6 C	Conducted Spurious Emissions	25
	7.6.1	E.U.T. Operation	25
	7.6.2	Test Mode Description	25
	7.6.3	Test Setup Diagram	26
	7.6.4	Measurement Procedure and Data	26
7	'.7 F	Radiated Emissions which fall in the restricted bands	27
	7.7.1	E.U.T. Operation	27
	7.7.2	Test Mode Description	27
	7.7.3	Test Setup Diagram	28
	7.7.4	Measurement Procedure and Data	28
7	'.8 F	Radiated Spurious Emissions Below 1GHz	41
	7.8.1	E.U.T. Operation	41
	7.8.2	Test Mode Description	41
	7.8.3	Test Setup Diagram	42
	7.8.4	Measurement Procedure and Data	43
7	'.9 F	Radiated Spurious Emissions Above 1GHz	46
	7.9.1	E.U.T. Operation	46
	7.9.2	Test Mode Description	46
	7.9.3	Test Setup Diagram	47
	7.9.4	Measurement Procedure and Data	48
8	Test S	Setup Photo	67
9	EUT C	Constructional Details (EUT Photos)	68
10	Anner	ndix	60
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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 6 of 98

General Information

4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below:

Model: RCA00-4BU

Rated: DC 3.7 V, 42.92Wh, 11600mAh

DC 5 V for charging by AC/DC adapter refer to section 4.2

Test Voltage: AC 120 V, 60 Hz

Cable(s): DC input ports

Micro SD card ports

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, Modulation Type:

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: Internal Antenna

Antenna Gain: 2.71 dBi max according to the antenna specification

Antenna Number: 1

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC/DC Adapter	HUAWEI	Model: HW-110600C02; Input: AC 100-240V,1.8A Max.50/60Hz; Output: DC 5V/2A, 10V/4A, 11V/6A Max.	JL28L4NBM03275
USB Cable (1.0m length)	/	/	/



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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 7 of 98

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
	±5.00dB (30MHz-1GHz; 3m); ±4.38dB (30MHz-1GHz; 10m);
Radiated Emissions which fall in the restricted bands	± 5.12dB (1GHz-6GHz);
	±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)
Radiated Spurious Emissions Below 1GHz	±5.00dB (3m); ±4.38dB (10m)
	±5.12dB (1GHz-6GHz);
Radiated Spurious Emissions Above 1GHz	±5.38dB (6GHz-18GHz); ±5.61dB(18GHz-40GHz)

Remark:

The Ulab (lab Uncertainty) is less than UETSI (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.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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> Page: 8 of 98

4.5 Test Facility

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

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.

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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 9 of 98

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due D							
Coaxial Cable	HangTianXing	2m	EMC0107	2023-08-04	2024-08-03		
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	2022-10-16	2025-10-15		
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2023-09-08	2024-09-07		
EMI Test Receiver (9kHz-3.6GHz)	Rohde & Schwarz	ESR3	EMC2221	2023-05-19	2024-05-18		
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 Da						
MI CABLE	SGS-EMC	M8.0	EMC2137	2023-11-02	2025-11-01	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

Minimum 6dB Bandwidth						
Equipment Manufacturer Model No. Inventory No. Cal Date Cal Due Da						
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
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	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	



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EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 10 of 98

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
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	2023-11-10	2024-11-09	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	



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EMC-TRF-01 Rev 1.1

Report No.: GZCR231000103002

Page: 11 of 98

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
966 Anechoic Chamber	Shenzhen C.R.T	CRTSGSSAC9 66	EMC2230	2022-04-12	2025-04-11	
EMI Test Receiver (1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2229	2024-02-19	2025-02-18	
Amplifier(9k-1000MHz)	SONOMA	310	EMC2237	2023-04-13	2024-04-12	
TRILOG Broadband Antenna(25M-2GHz)	SCHWRZBECK	VULB 9168	EMC2238	2022-04-20	2025-04-19	
Coaxial Cable	Mirco-COAX UTIFLEX ve	LA2-C125- 8000	EMC2239	2023-06-14	2025-06-13	
Test Software E3	Audix	Ver.6.191211	GZE100-81	N/A	N/A	
Active Loop Antenna- RED	ETS-Lindgren	6502	EMC2190	2022-04-06	2024-04-05	

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	2023-11-10	2024-11-09	
EMI Test Receiver (10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2023-12-15	2024-12-14	
Chamber cable (Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2022-08-24	2024-08-23	
Horn Antenna (1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2022-09-23	2025-09-22	
Horn Antenna (14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2023-06-18	2026-06-17	
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2023-11-10	2024-11-09	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
MXE EMI Receiver (10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2023-10-20	2024-10-19	
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2023-12-23	2026-12-22	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 12 of 98

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

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 2.71 dBi.

Antenna location: Refer to internal photo.



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Page: 13 of 98

Radio Spectrum Matter Test Results 7

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:

Average 56 to 46*
56 to 46*
46
50
1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 55.2 % RH Atmospheric Pressure: 1016 mbar

7.1.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	Description

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

Final test 01



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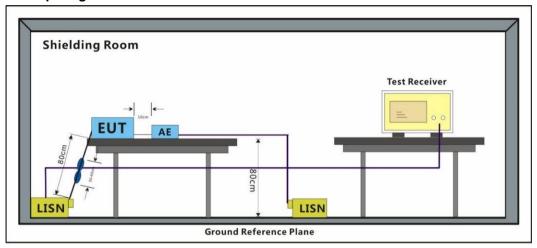
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Page: 14 of 98

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50uH + 50hm 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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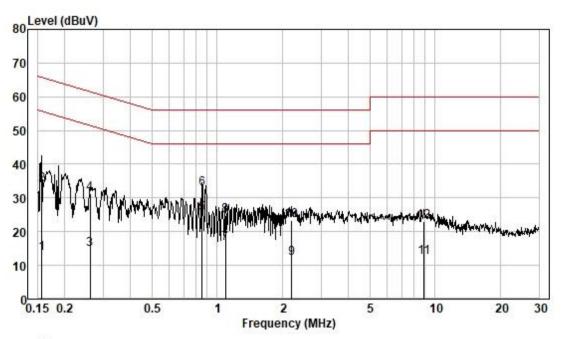


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 15 of 98

Test Mode: 00; Line: Live line



Pol :LINE Mode : Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.156	3.95	0.04	9.61	13.60	55.65	-42.05	Average
2	0.156	24.33	0.04	9.61	33.98	65.65	-31.67	QP
3	0.262	4.98	0.04	9.61	14.63	51.38	-36.75	Average
4	0.262	21.68	0.04	9.61	31.33	61.38	-30.05	QP
5	0.853	15.65	0.07	9.60	25.32	46.00	-20.68	Average
6	0.853	23.17	0.07	9.60	32.84	56.00	-23.16	QP
7	1.088	6.76	0.08	9.59	16.43	46.00	-29.57	Average
8	1.088	15.06	0.08	9.59	24.73	56.00	-31.27	QP
9	2.190	2.39	0.13	9.62	12.14	46.00	-33.86	Average
10	2.190	13.70	0.13	9.62	23.45	56.00	-32.55	QP
11	8.869	2.50	0.24	9.67	12.41	50.00	-37.59	Average
12	8.869	13.05	0.24	9.67	22.96	60.00	-37.04	OP



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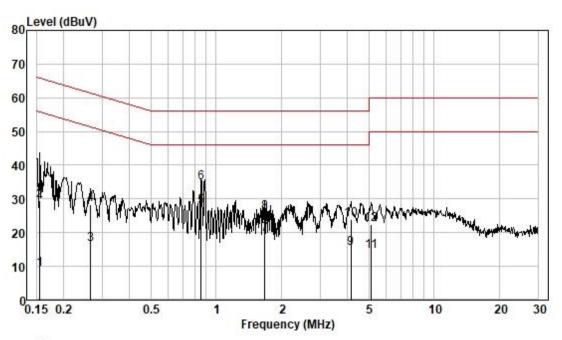


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 16 of 98

Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode Model : Power :

	Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
1	0.155	-0.47	0.04	9.62	9.19	55.74	-46.55	Average
2	0.155	19.96	0.04	9.62	29.62	65.74	-36.12	QP
3	0.266	6.89	0.04	9.60	16.53	51.25	-34.72	Average
4	0.266	18.81	0.04	9.60	28.45	61.25	-32.80	QP
5	0.853	18.00	0.07	9.61	27.68	46.00	-18.32	Average
6	0.853	25.06	0.07	9.61	34.74	56.00	-21.26	QP
7	1.671	9.66	0.11	9.60	19.37	46.00	-26.63	Average
8	1.671	16.29	0.11	9.60	26.00	56.00	-30.00	QP
9	4.158	5.55	0.18	9.64	15.37	46.00	-30.63	Average
10	4.158	14.13	0.18	9.64	23.95	56.00	-32.05	QP
11	5.139	4.54	0.20	9.65	14.39	50.00	-35.61	Average
12	5.139	12.64	0.20	9.65	22.49	60.00	-37.51	QP



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> Page: 17 of 98

7.2 Conducted Peak Output Power

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

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: 23.6 °C Humidity: 58.3 % RH Atmospheric Pressure: 1016 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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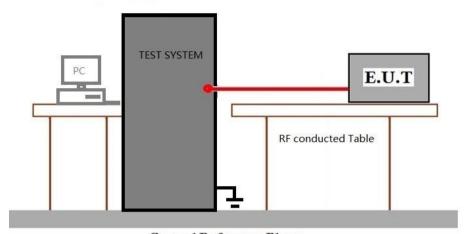
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 18 of 98

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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> Page: 19 of 98

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: 23.6 °C Humidity: 58.3 % RH Atmospheric Pressure: 1016 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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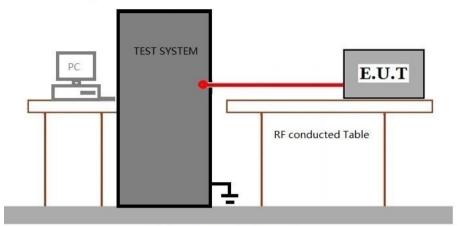
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Page: 20 of 98

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 21 of 98

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

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

transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 58.2 % RH Atmospheric Pressure: 1016 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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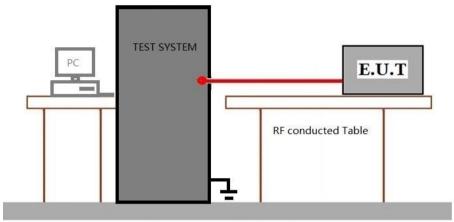
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 22 of 98

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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> Page: 23 of 98

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: 23.6 °C Atmospheric Pressure: 1016 mbar Humidity: 58.2 % RH

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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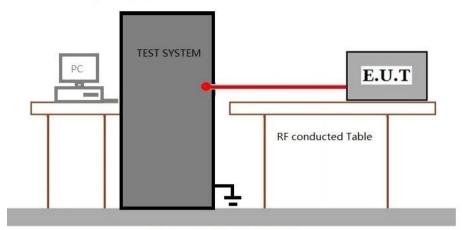
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Page: 24 of 98

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 25 of 98

7.6 Conducted Spurious Emissions

47 CFR Part 15, Subpart C 15.247(d) Test Requirement 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: 23.5 °C Atmospheric Pressure: 1016 mbar Humidity: 57.9 % RH

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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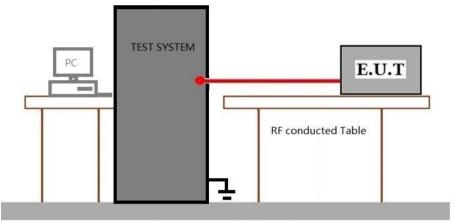
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Page: 26 of 98

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 27 of 98

7.7 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15,205 & 15,209 Test Requirement

Test Method: ANSI C63.10 (2013) Section 11.12

Limit:

Test Distance: 3 m

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: 23.6 °C Humidity: 59.2 % RH Atmospheric Pressure: 1016 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	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), 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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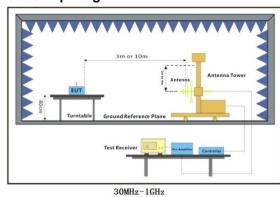
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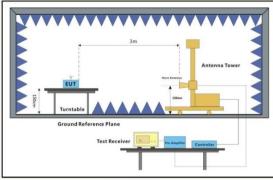


EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 28 of 98

7.7.3 Test Setup Diagram





Above 1GHz

7.7.4 Measurement Procedure and Data

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

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

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



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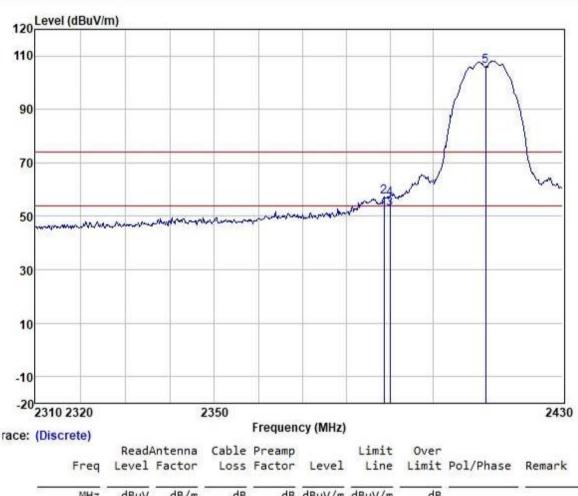
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 29 of 98

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



		Read	Antenna	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		
1	2388.637	57.25	27.68	3.77	37.22	51.48	54.00	-2.52	VERTICAL	Average
2	2388.637	63.18	27.68	3.77	37.22	57.41	74.00	-16.59	VERTICAL	Peak
3	2390.000	58.46	27.68	3.77	37.21	52.70	54.00	-1.30	VERTICAL	Average
4	2390.000	62.27	27.68	3.77	37.21	56.51	74.00	-17.49	VERTICAL	Peak
5 *	2412.000	111.87	27.74	3.79	37.21	106.19	74.00	32.19	VERTICAL	Peak



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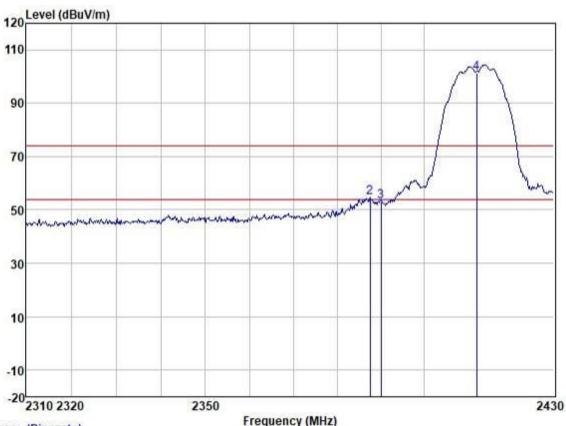
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 30 of 98

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



race: (Discrete)	Frequency (
dec. (Discrete)	

	Freq		Antenna Factor						Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		3
1	2387.428	55.38	27.68	3.77	37.22	49.61	54.00	-4.39	HORIZONTAL	Average
2	2387.428	60.46	27.68	3.77	37.22	54.69	74.00	-19.31	HORIZONTAL	Peak
3	2390.000	58.92	27.68	3.77	37.21	53.16	74.00	-20.84	HORIZONTAL	Peak
4 *	2412.000	107.06	27.74	3.79	37.21	101.38	74.00	27.38	HORIZONTAL	Peak



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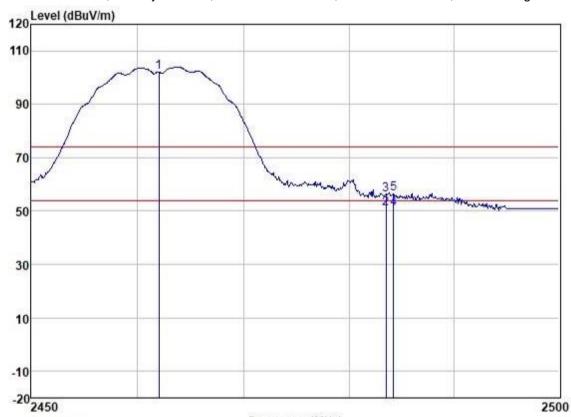
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 31 of 98

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



race: (Discrete)	Frequency (MHz)
inches.	Discrete	

			Read	Antenna	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		
1	*	2462.000	107.64	27.82	3.81	37.20	102.07	74.00	28.07	VERTICAL	Peak
2		2483.500	56.40	27.85	3.82	37.19	50.88	54.00	-3.12	VERTICAL	Average
3		2483.500	61.59	27.85	3.82	37.19	56.07	74.00	-17.93	VERTICAL	Peak
4		2484.191	56.55	27.85	3.82	37.19	51.03	54.00	-2.97	VERTICAL	Average
5		2484.191	62.18	27.85	3.82	37.19	56.66	74.00	-17.34	VERTICAL	Peak



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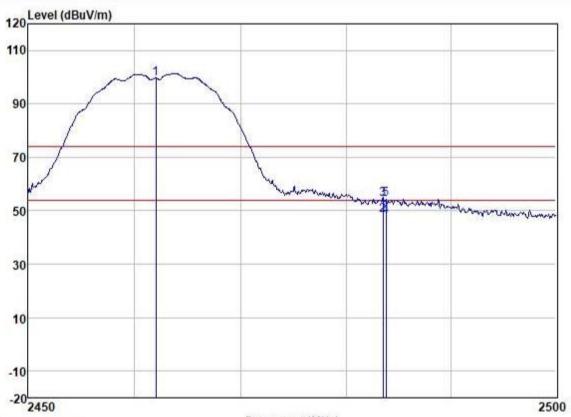
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 32 of 98

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



race: (Discrete)	Frequency (MHz)
ace, (Discrete)	

	Freq					Level			Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	· 	-
1 *	2462.000	105.03	27.82	3.81	37.20	99.46	74.00	25.46	HORIZONTAL	Peak
2	2483.500	53.71	27.85	3.82	37.19	48.19	54.00	-5.81	HORIZONTAL	Average
3	2483.500	59.98	27.85	3.82	37.19	54.46	74.00	-19.54	HORIZONTAL	Peak
4	2483.790	53.48	27.85	3.82	37.19	47.96	54.00	-6.04	HORIZONTAL	Average
5	2483.790	59.85	27.85	3.82	37.19	54.33	74.00	-19.67	HORIZONTAL	Peak



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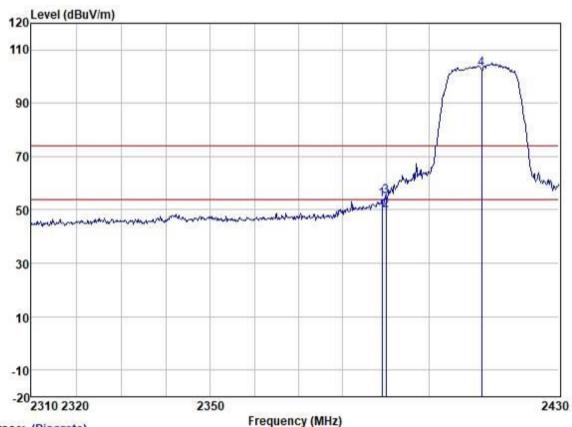
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 33 of 98

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



race: (Discrete)

	Freq		ReadAntenna Level Factor				Limit Line			Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	3 1	163
1	2389.121	59.75	27.68	3.77	37.22	53.98	74.00	-20.02	VERTICAL	Peak
2	2390.000	55.61	27.68	3.77	37.21	49.85	54.00	-4.15	VERTICAL	Average
3	2390.000	60.85	27.68	3.77	37.21	55.09	74.00	-18.91	VERTICAL	Peak
4 :	2412.000	108.59	27.74	3.79	37.21	102.91	74.00	28.91	VERTICAL	Peak



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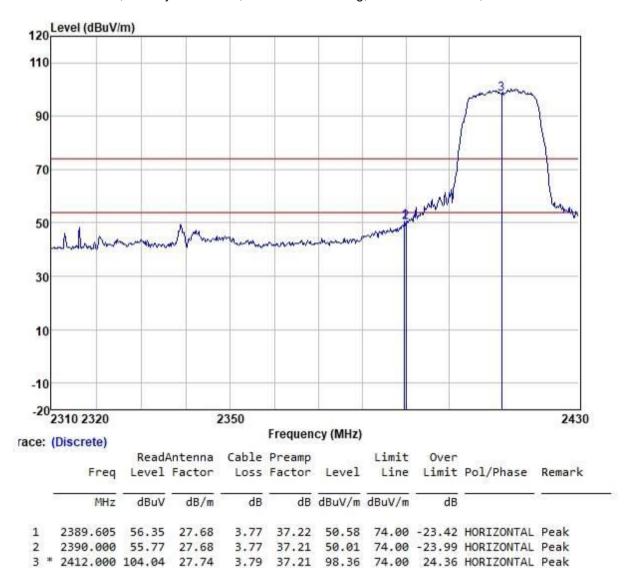
EMC-TRF-01 Rev 1.1

检验检测专用章

Report No.: GZCR231000103002

Page: 34 of 98

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





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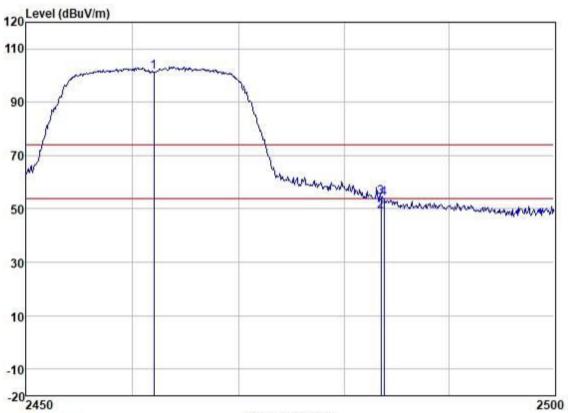
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 35 of 98

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



race: (Discrete)	Frequency (MHz)
race: (Discrete)	

		Freq	ReadAntenna Level Factor								Remark
	-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	·	() 2
1	*	2462.000	106.74	27.82	3.81	37.20	101.17	74.00	27.17	VERTICAL	Peak
2		2483.500	54.64	27.85	3.82	37.19	49.12	54.00	-4.88	VERTICAL	Average
3		2483.500	59.87	27.85	3.82	37.19	54.35	74.00	-19.65	VERTICAL	Peak
4		2483.790	59.47	27.85	3.82	37.19	53.95	74.00	-20.05	VERTICAL	Peak



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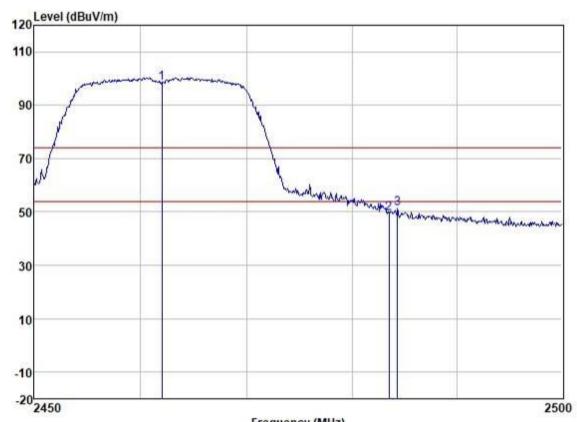
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 36 of 98

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



Discrete)									
Freq								Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	9	T.S.
2462.000	103.85	27.82	3.81	37.20	98.28	74.00	24.28	HORIZONTAL	Peak
2483.500	54.91	27.85	3.82	37.19	49.39	74.00	-24.61	HORTZONTAL	Peak
	Freq MHz 2462.000	Read/ Freq Level MHz dBuV 2462.000 103.85	ReadAntenna Freq Level Factor MHz dBuV dB/m	ReadAntenna Cable	ReadAntenna Cable Preamp Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 2462.000 103.85 27.82 3.81 37.20	ReadAntenna Cable Preamp Freq Level Factor Loss Factor Level	ReadAntenna Cable Preamp Limit Freq Level Factor Loss Factor Level Line	ReadAntenna Cable Preamp Limit Over	ReadAntenna Cable Preamp Limit Over Level Education Level Line Limit Pol/Phase MHz dBuV dB/m dB dB dBuV/m dBuV/m dB dB dBuV/m dB dB dBuV/m dB dB dBuV/m dB dB dB dB dB dB dB d

3.82 37.19 51.18 74.00 -22.82 HORIZONTAL Peak



2484.292 56.70 27.85

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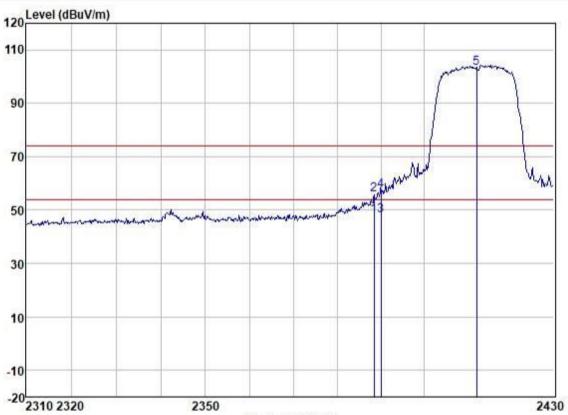


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 37 of 98

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



Frequency (MHz) race: (Discrete)

	O.A.	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark
	2	MHz	dBuV	dB/m	— dB	— dB	dBuV/m	dBuV/m	——dB		Total mental distribution
1		2388.395	53.82	27.68	3.77	37.22	48.05	54.00	-5.95	VERTICAL	Average
2		2388.395	61.39	27.68	3.77	37.22	55.62	74.00	-18.38	VERTICAL	Peak
3		2390.000	53.69	27.68	3.77	37.21	47.93	54.00	-6.07	VERTICAL	Average
4		2390.000	63.02	27.68	3.77	37.21	57.26	74.00	-16.74	VERTICAL	Peak
5	*	2412.000	109.07	27.74	3.79	37.21	103.39	74.00	29.39	VERTICAL	Peak



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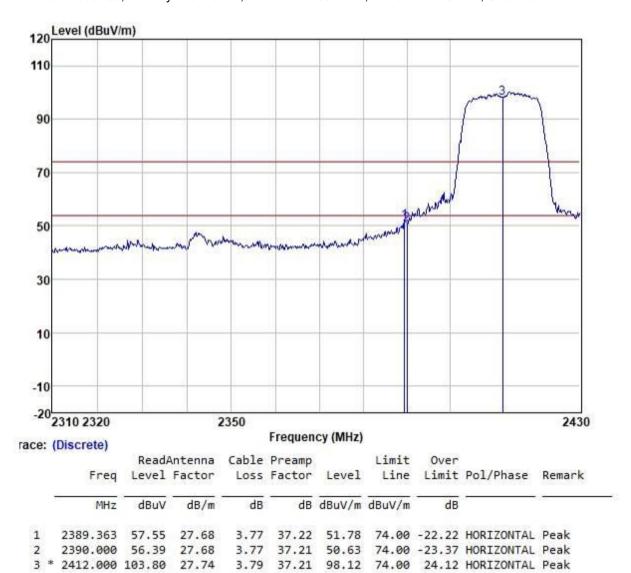
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 38 of 98

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





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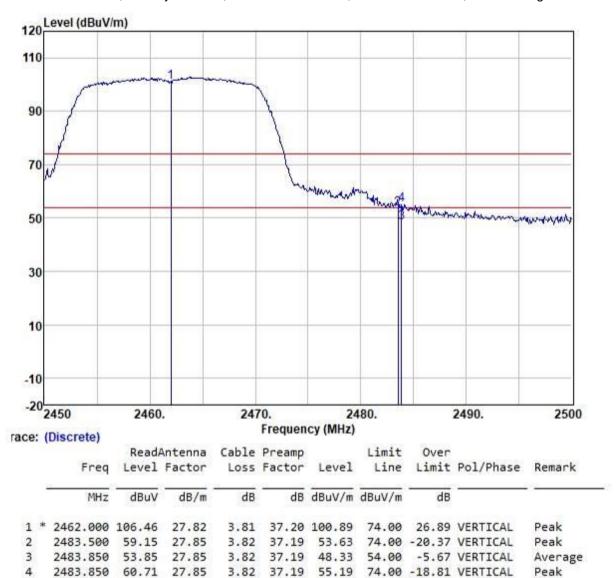
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 39 of 98

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





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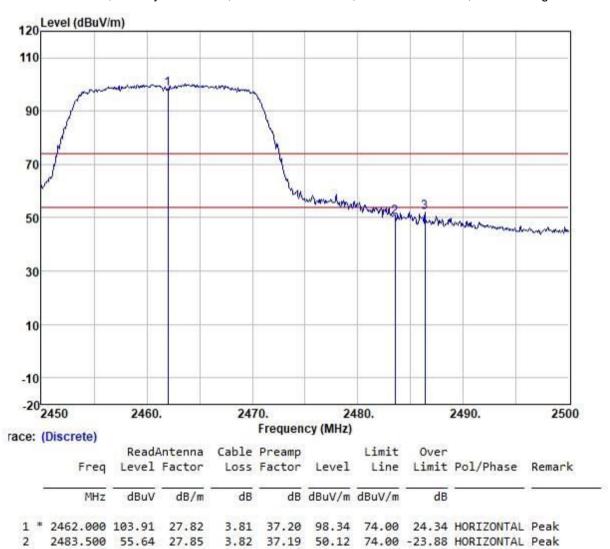
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 40 of 98

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





2486.350 57.49 27.85

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3.82 37.19 51.97 74.00 -22.03 HORIZONTAL Peak

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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 41 of 98

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

Limit:

Test Distance: 3 m

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: 25.7 °C Humidity: 53.6 % RH Atmospheric Pressure: 1016 mbar

7.8.2 Test Mode Description

Pre-scan /	Mode	Desci
Final test	Code	Descr

ription

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

Pre-scan 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), 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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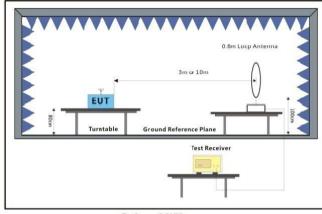
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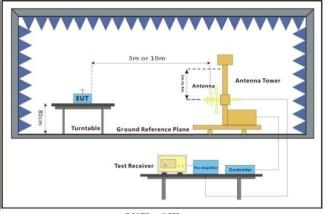


EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 42 of 98

7.8.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 43 of 98

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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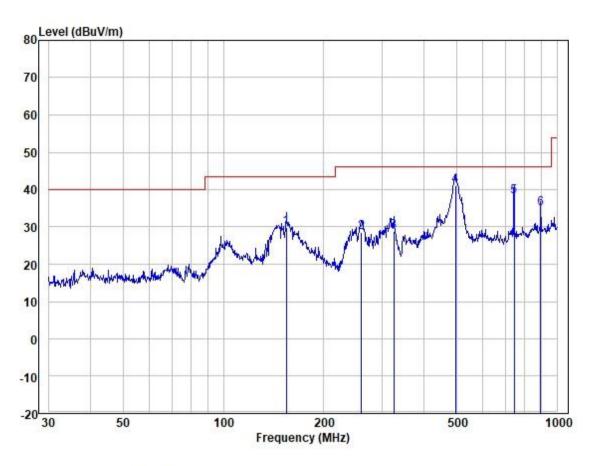


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 44 of 98

Test Mode: 00; Polarity: Horizontal



Site : 966 Chamber

Job Model Power Test Mode

	Freq					Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		-
1	154.279	42.94	19.14	0.68	32.80	29.96	43.52	-13.56	HORIZONTAL	QP
2	259.234	42.72	17.76	0.92	32.80	28.60	46.02	-17.42	HORIZONTAL	QP
3	324.456	40.58	19.99	1.01	32.80	28.78	46.02	-17.24	HORIZONTAL	QP
4	495.934	49.29	23.45	1.29	32.90	41.13	46.02	-4.89	HORIZONTAL	QP
5	744.866	41.25	27.97	1.59	32.55	38.26	46.02	-7.76	HORIZONTAL	QP
6	893.857	35.47	29.26	1.76	31.62	34.87	46.02	-11.15	HORIZONTAL	QP



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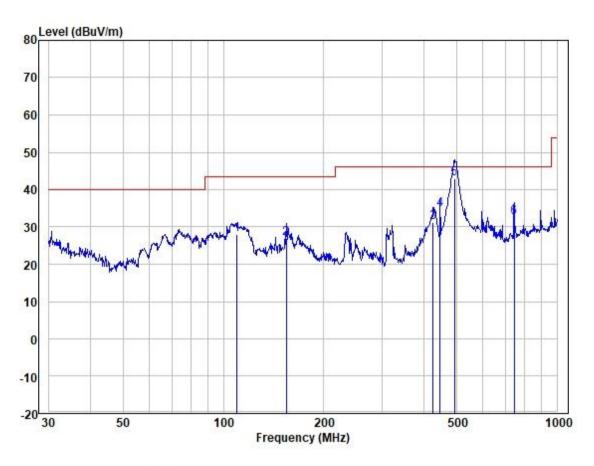
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Page: 45 of 98

Test Mode: 00; Polarity: Vertical



: 966 Chamber Site

Job Model Power Test Mode

	Freq				THE RESERVE OF THE PARTY OF THE	Measured Level		Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		·—
1	109.796	44.04	16.07	0.57	32.80	27.88	43.52	-15.64	VERTICAL	QP
2	154.279	40.02	19.14	0.68	32.80	27.04	43.52	-16.48	VERTICAL	QP
3	425.028	40.86	21.96	1.18	32.82	31.18	46.02	-14.84	VERTICAL	QP
4	446.414	43.64	22.62	1.21	32.84	34.63	46.02	-11.39	VERTICAL	QP
5	492.469	51.21	23.38	1.28	32.90	42.97	46.02	-3.05	VERTICAL	QP
6	744.866	35.49	27.97	1.59	32.55	32.50	46.02	-13.52	VERTICAL	QP



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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 46 of 98

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

Limit:

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

7.9.1 E.U.T. Operation

Final test

Operating Environment:

Temperature: 23.6 °C Humidity: 59.2 % RH Atmospheric Pressure: 1016 mbar

7.9.2 Test Mode Description

Pre-scan /	Mode	Docarintian
Final test	Code	Description

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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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

01 Pre-scan

检验检测专用章

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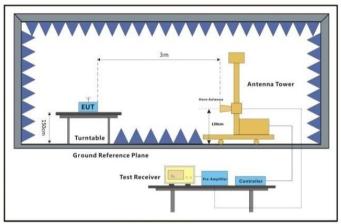


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 47 of 98

7.9.3 Test Setup Diagram



Above 1GHz



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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 48 of 98

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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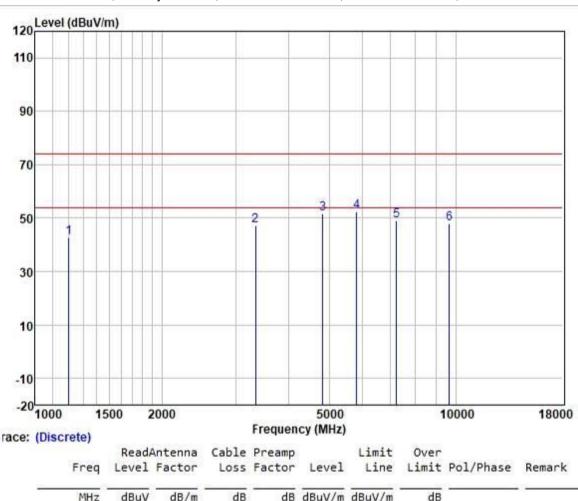


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 49 of 98

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



		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dв	dBuV/m	dBuV/m	dB	0.2	- 24
1	1203.199	54.77	23.20	2.57	37.99	42.55	74.00	-31.45	VERTICAL	peak
2	3337.710	50.56	28.95	4.56	37.05	47.02	74.00	-26.98	VERTICAL	peak
3	4824.000	49.22	34.16	5.16	36.87	51.67	74.00	-22.33	VERTICAL	peak
4	5813.812	50.90	32.67	5.77	36.99	52.35	74.00	-21.65	VERTICAL	peak
5	7236.000	43.55	35.78	6.90	37.14	49.09	74.00	-24.91	VERTICAL	peak
6	9648.000	38.47	38.70	7.65	37.02	47.80	74.00	-26.20	VERTICAL	peak



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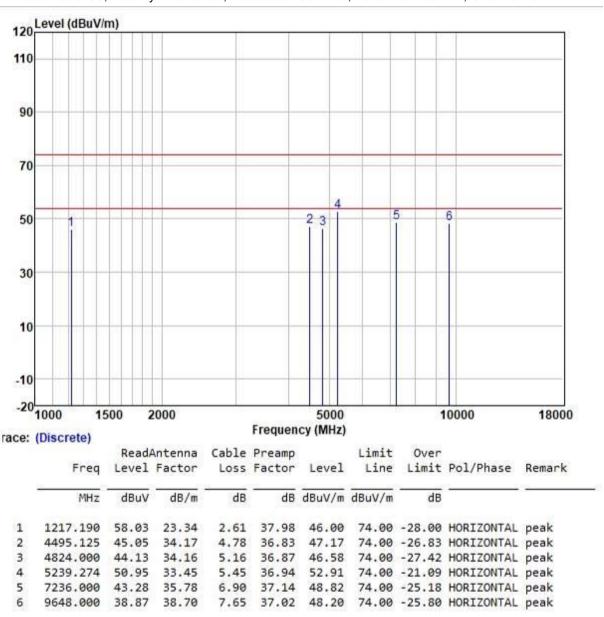
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 50 of 98

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





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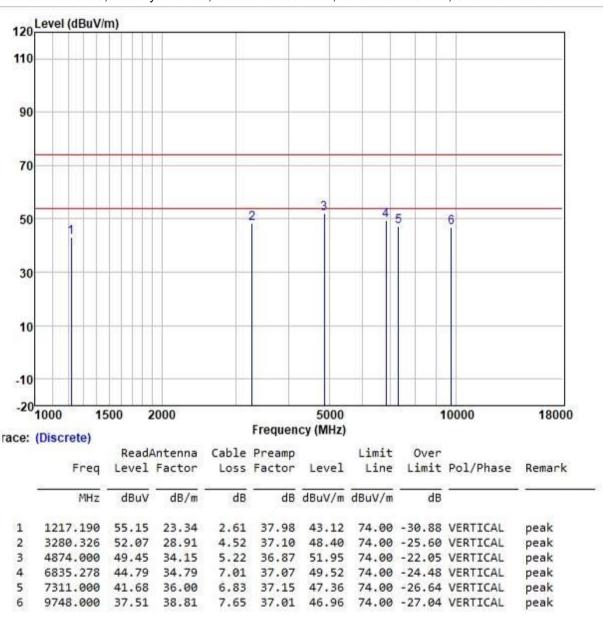
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 51 of 98

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





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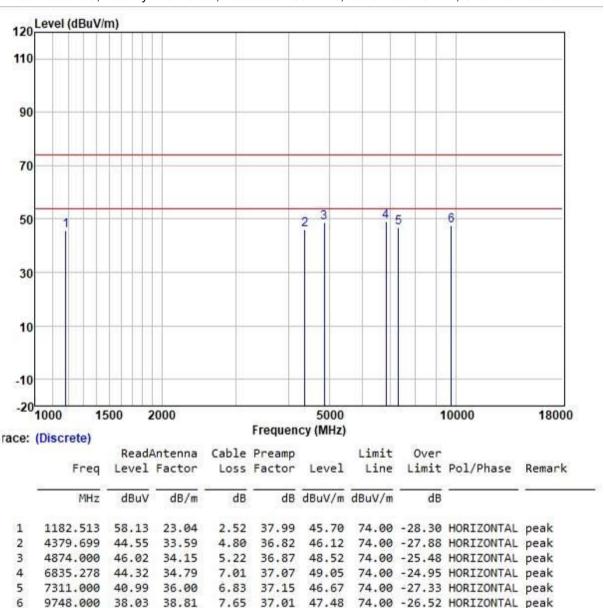
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 52 of 98

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





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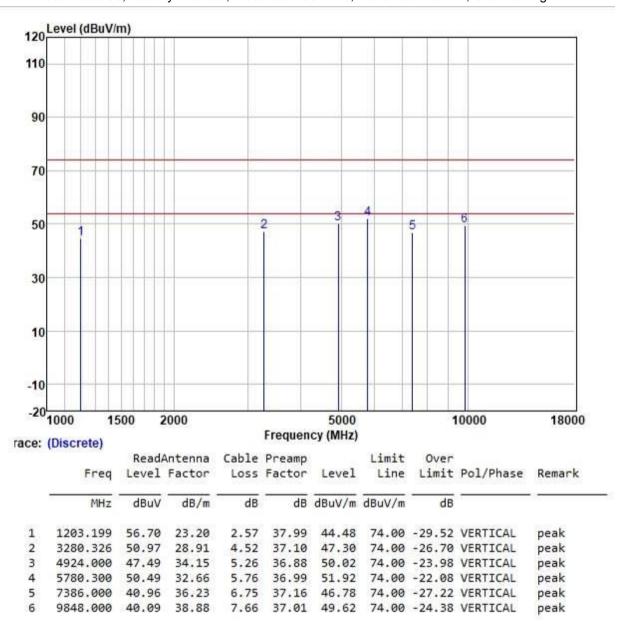
t (86-20) 82155555



EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 53 of 98

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





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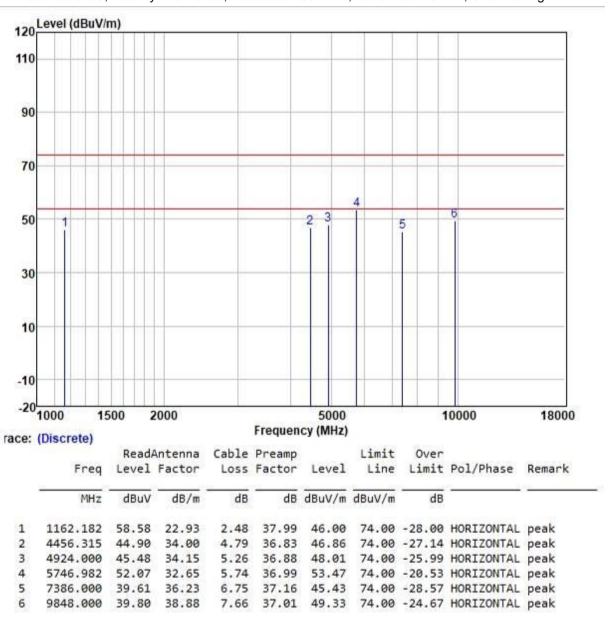
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 54 of 98

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





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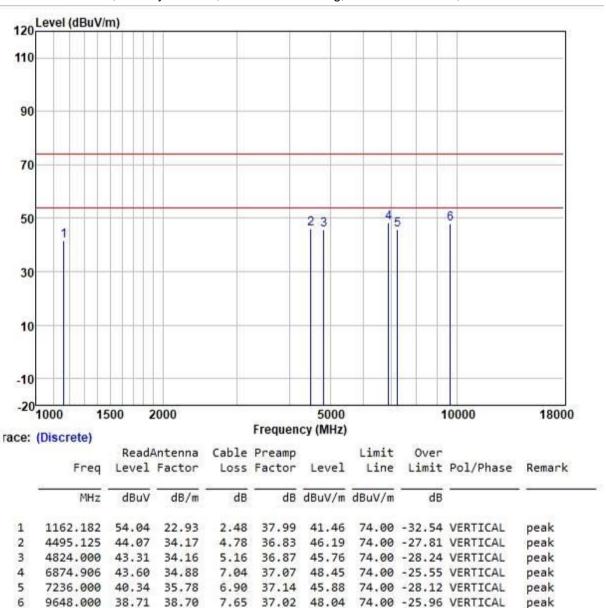
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 55 of 98

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





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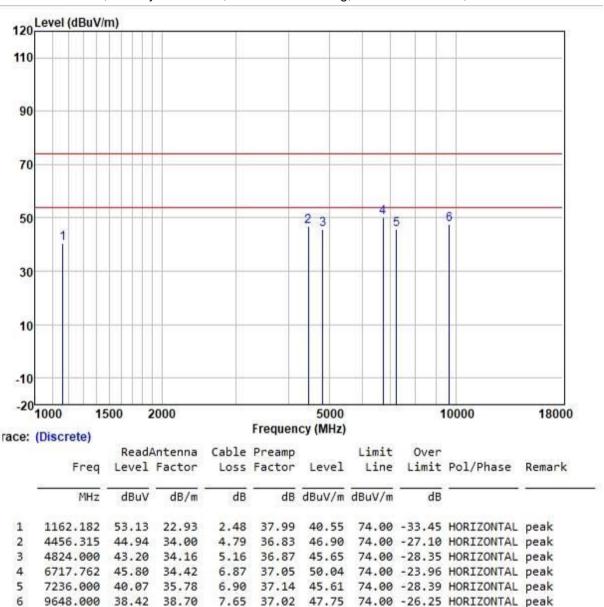
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 56 of 98

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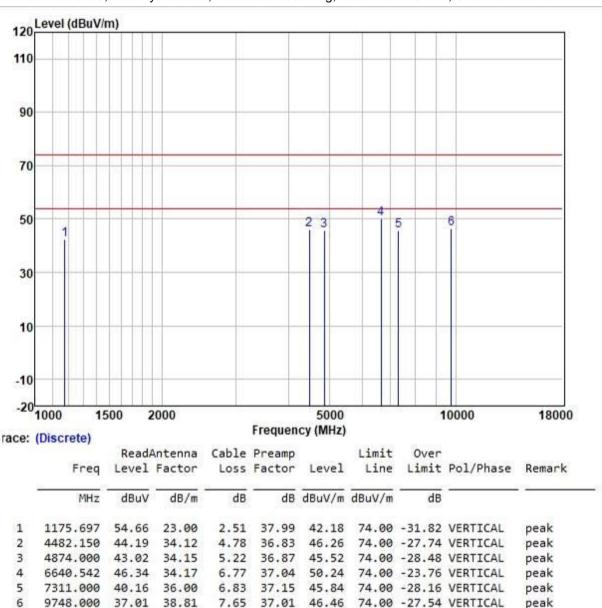
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 57 of 98

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





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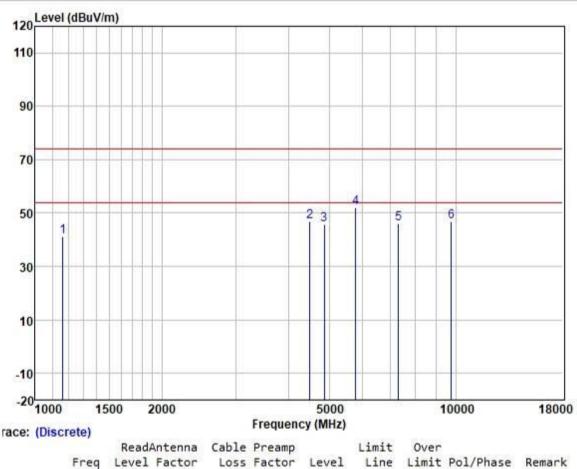


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 58 of 98

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



	(01001010)										
			Antenna				Limit			Party Services	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	5	-	
1	1162.182	53.91	22.93	2.48	37.99	41.33	74.00	-32.67	HORIZONTAL	peak	
2	4495.125	44.83	34.17	4.78	36.83	46.95	74.00	-27.05	HORIZONTAL	peak	
3	4874.000	43.33	34.15	5.22	36.87	45.83	74.00	-28.17	HORIZONTAL	peak	
4	5780.300	50.75	32.66	5.76	36.99	52.18	74.00	-21.82	HORIZONTAL	peak	
5	7311.000	40.35	36.00	6.83	37.15	46.03	74.00	-27.97	HORIZONTAL	peak	
6	9748.000	37.55	38.81	7.65	37.01	47.00	74.00	-27.00	HORIZONTAL	peak	



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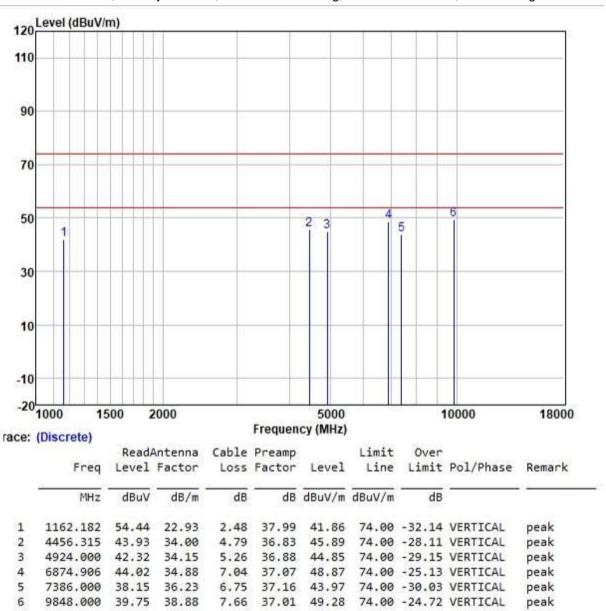
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 59 of 98

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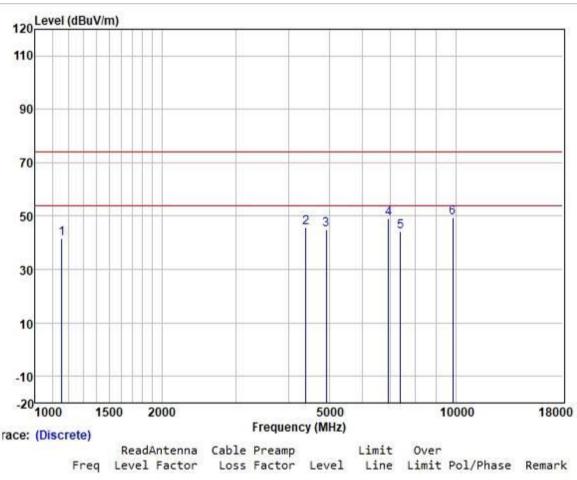


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 60 of 98

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



	10.00.0101										
	Freq		Antenna Factor				Limit Line		Pol/Phase	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	——dB	24 <u>5</u>		
1	1155.483	54.10	22.89	2.47	37.99	41.47	74.00	-32.53	HORIZONTAL	peak	
2	4405.090	43.87	33.74	4.79	36.82	45.58	74.00	-28.42	HORIZONTAL	peak	
3	4924.000	42.27	34.15	5.26	36.88	44.80	74.00	-29.20	HORIZONTAL	peak	
4	6914.763	43.93	34.97	7.08	37.08	48.90	74.00	-25.10	HORIZONTAL	peak	
5	7386.000	38.52	36.23	6.75	37.16	44.34	74.00	-29.66	HORIZONTAL	peak	
6	9848.000	39.84	38.88	7.66	37.01	49.37	74.00	-24.63	HORIZONTAL	peak	



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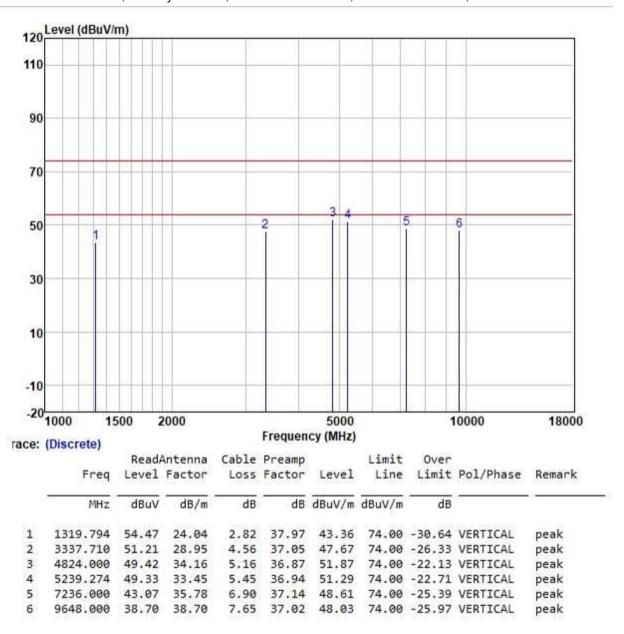
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Page: 61 of 98

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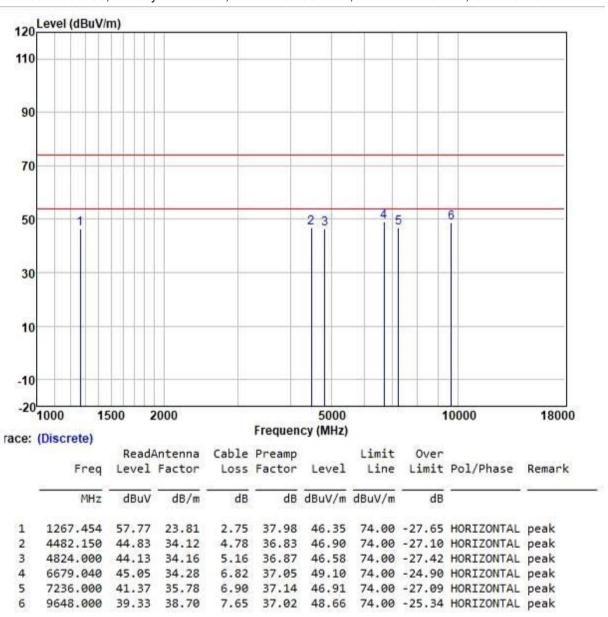
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Page: 62 of 98

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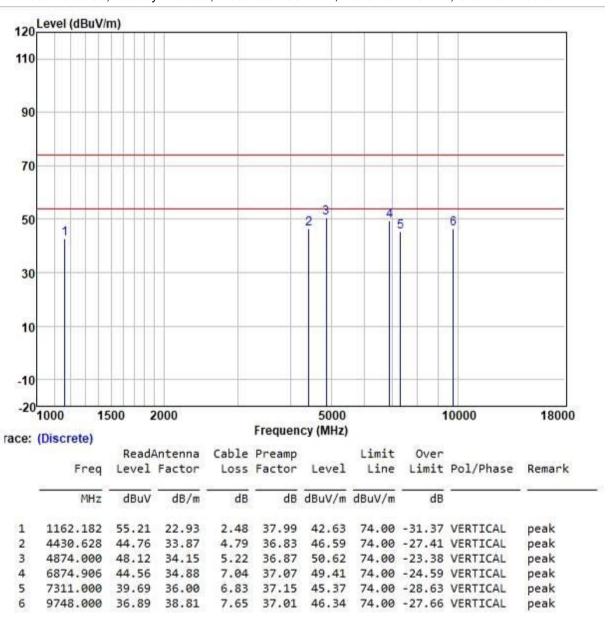
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Page: 63 of 98

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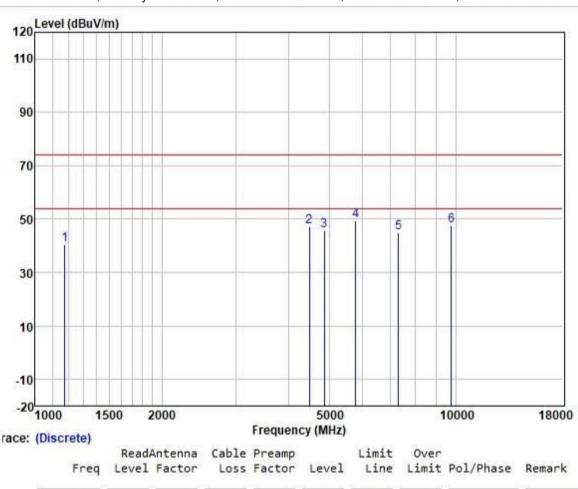


Rev 1.1 EMC-TRF-01

Report No.: GZCR231000103002

Page: 64 of 98

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



			Antenna				Limit			
	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>	10 m
1	1175.697	52.92	23.00	2.51	37.99	40.44	74.00	-33.56	HORIZONTAL	peak
2	4482.150	44.97	34.12	4.78	36.83	47.04	74.00	-26.96	HORIZONTAL	peak
3	4874.000	43.06	34.15	5.22	36.87	45.56	74.00	-28.44	HORIZONTAL	peak
4	5780.300	47.89	32.66	5.76	36.99	49.32	74.00	-24.68	HORIZONTAL	peak
5	7311.000	39.35	36.00	6.83	37.15	45.03	74.00	-28.97	HORIZONTAL	peak
6	9748.000	38.06	38.81	7.65	37.01	47.51	74.00	-26.49	HORIZONTAL	peak



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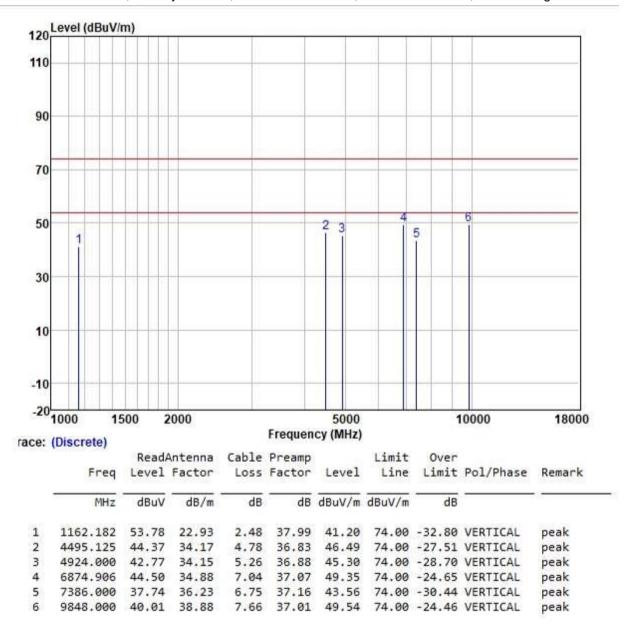
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Page: 65 of 98

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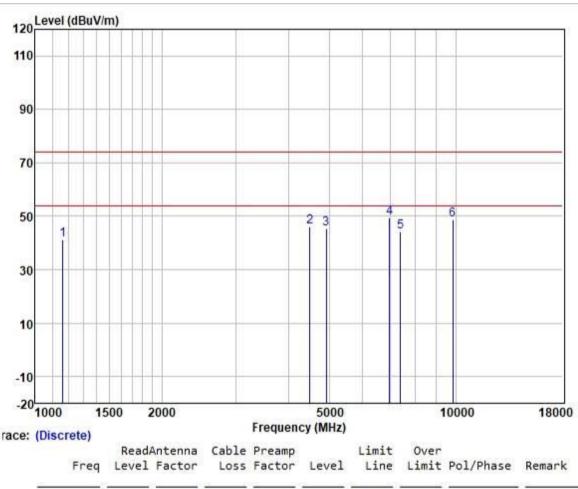
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 66 of 98

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



	Freq		Factor		The state of the s		Line		Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	55	-
1	1162.182	53.79	22.93	2.48	37.99	41.21	74.00	-32.79	HORIZONTAL	peak
2	4495.125	43.97	34.17	4.78	36.83	46.09	74.00	-27.91	HORIZONTAL	peak
3	4924.000	42.67	34.15	5.26	36.88	45.20	74.00	-28.80	HORIZONTAL	peak
4	6954.852	44.54	35.04	7.10	37.09	49.59	74.00	-24.41	HORIZONTAL	peak
5	7386.000	38.22	36.23	6.75	37.16	44.04	74.00	-29.96	HORIZONTAL	peak
6	9848.000	39.10	38.88	7.66	37.01	48.63	74.00	-25.37	HORIZONTAL	peak



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> Page: 67 of 98

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR231000103002



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> Page: 68 of 98

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for GZCR2310001030AT



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Report No.: GZCR231000103002 EMC-TRF-01 Rev 1.1

> Page: 69 of 98

10 Appendix

1. Duty Cycle

1.1 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 (%)
802.11b	SISO	2412	4.245	5.365	79.12	1.02	0.23
		2437	4.243	5.329	79.62	0.99	0.09
		2462	4.243	5.329	79.62	0.99	0.13
802.11g	SISO	2412	0.701	1.790	39.16	4.07	0.17
		2437	0.700	1.788	39.15	4.07	0.17
		2462	0.700	1.786	39.19	4.07	0.09
802.11n (HT20)	SISO	2412	0.653	1.767	36.96	4.32	0.03
		2437	0.653	1.776	36.77	4.35	0.18
		2462	0.652	1.769	36.86	4.33	0.07



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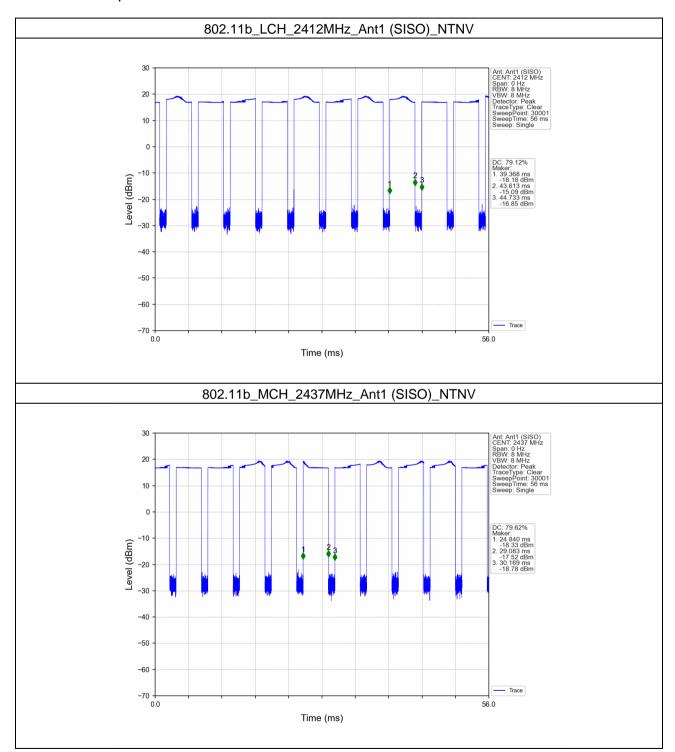
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Page: 70 of 98

1.1.2 Test Graph





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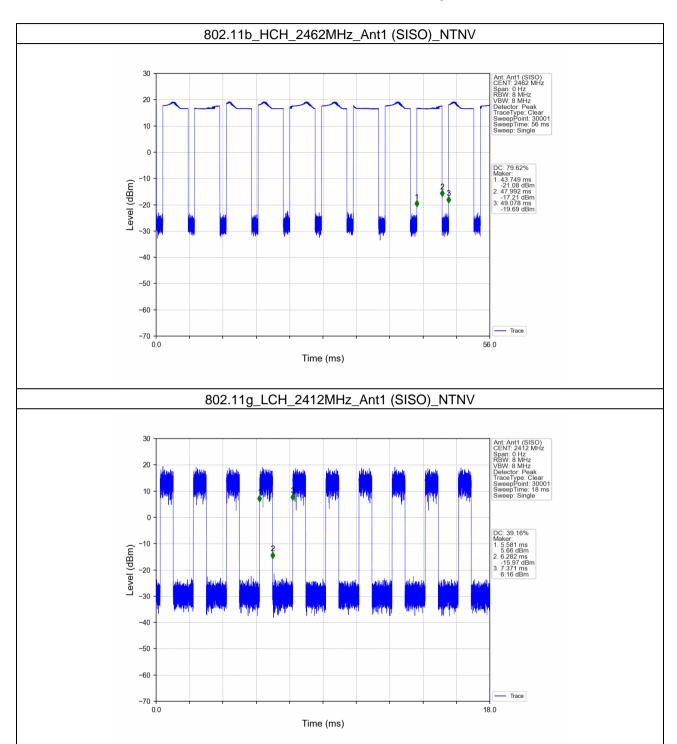
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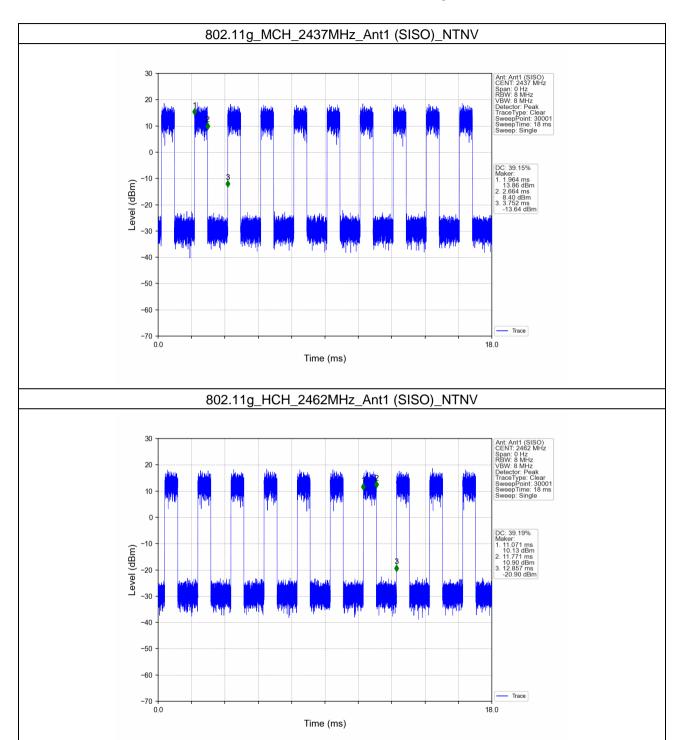
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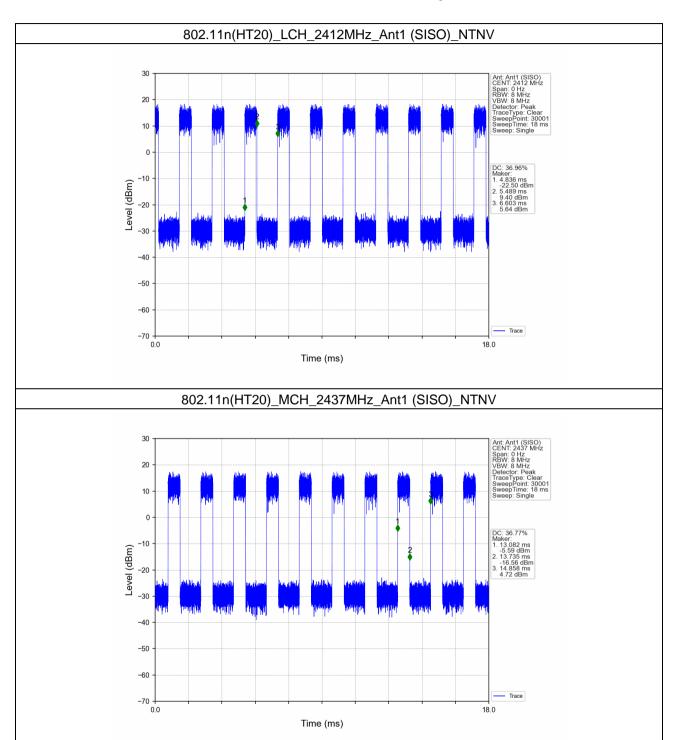
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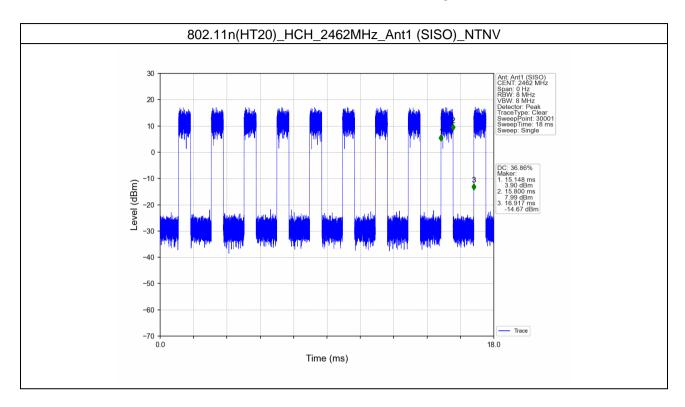
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Page: 75 of 98

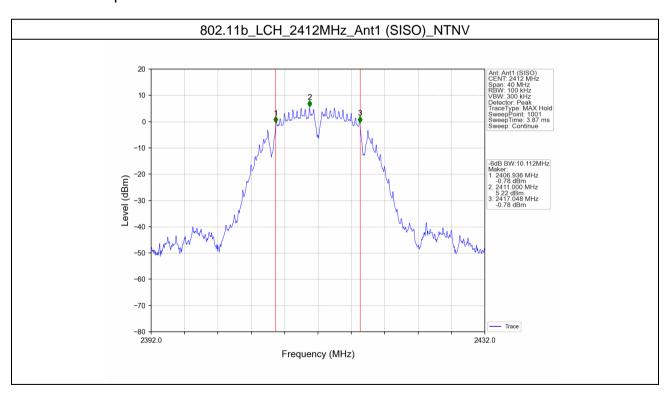
2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Manaliat	
				Result	Limit	Verdict	
802.11b	SISO	2412	1	10.112	>=0.5	Pass	
		2437	1	9.627	>=0.5	Pass	
		2462	1	9.623	>=0.5	Pass	
802.11g	SISO		2412	1	16.373	>=0.5	Pass
		2437	1	16.379	>=0.5	Pass	
		2462	1	16.386	>=0.5	Pass	
802.11n (HT20)			2412	1	17.048	>=0.5	Pass
	SISO	2437	1	17.000	>=0.5	Pass	
		2462	1	17.043	>=0.5	Pass	

2.2.2 Test Graph





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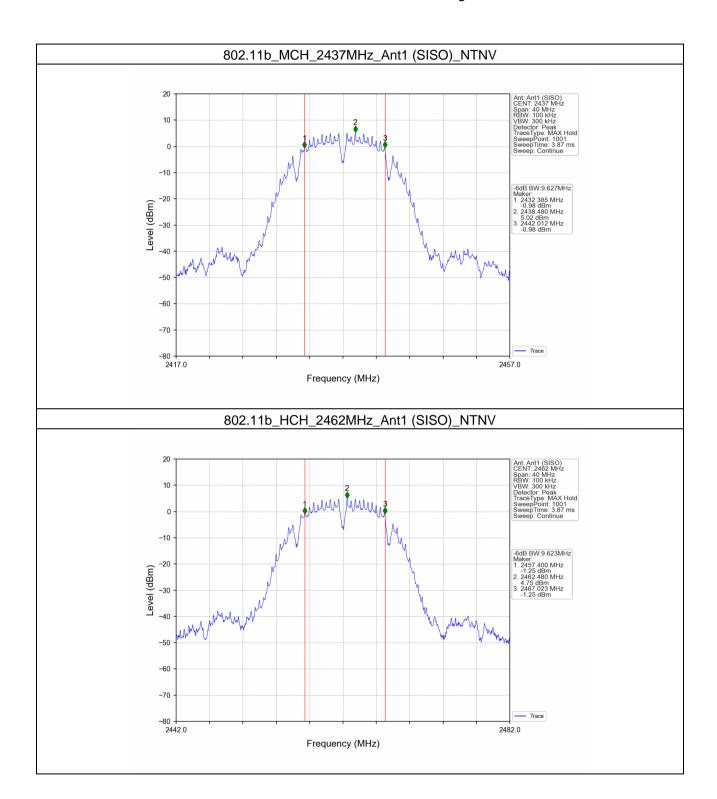
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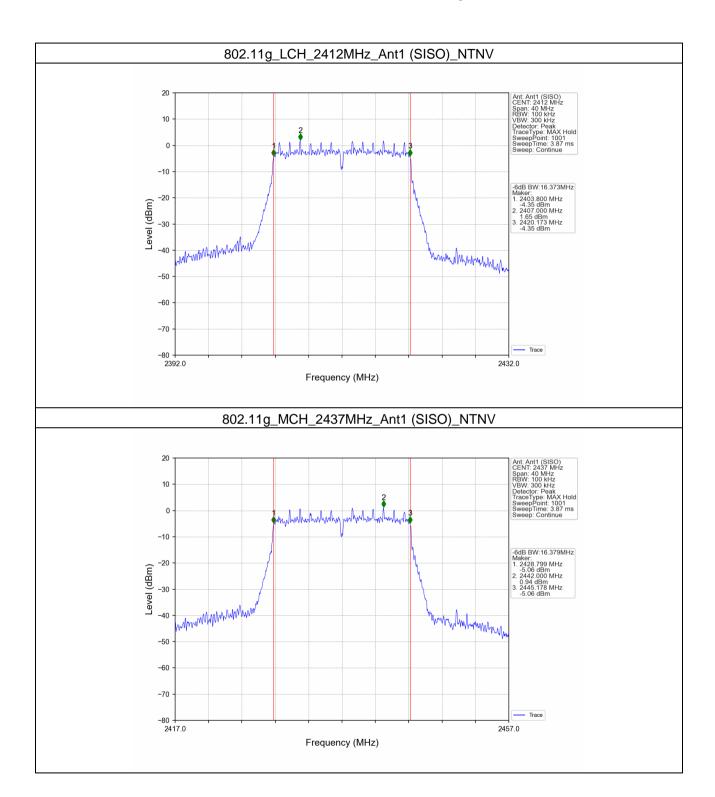
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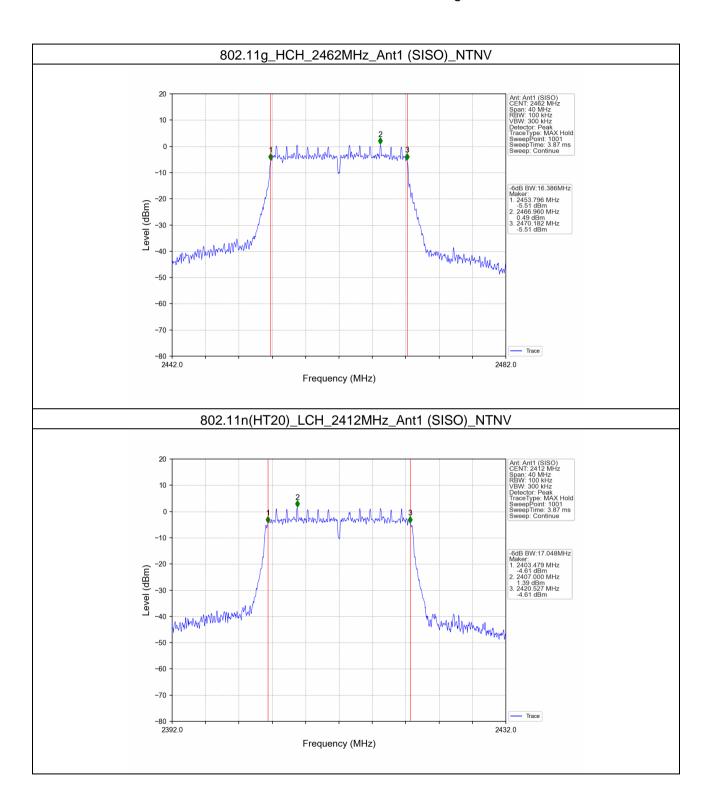
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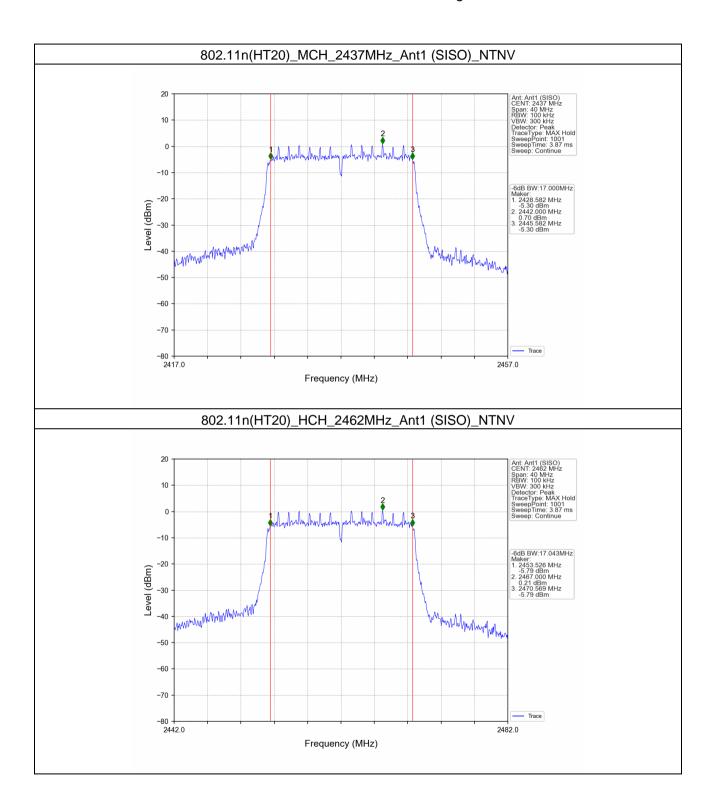
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Page: 80 of 98

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conduct	\/o.wal!a4	
			ANT1	Limit	Verdict
802.11b	SISO	2412	17.07	<=30	Pass
		2437	16.77	<=30	Pass
		2462	16.51	<=30	Pass
802.11g	SISO	2412	20.39	<=30	Pass
		2437	19.48	<=30	Pass
		2462	19.17	<=30	Pass
802.11n (HT20)	SISO	2412	19.94	<=30	Pass
		2437	19.07	<=30	Pass
		2462	18.53	<=30	Pass Pass Pass Pass Pass Pass

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum PS	\/ordiot		
	Type		ANT1	Limit	Verdict	
802.11b	SISO	2412	-6.08	<=8	Pass	
		2437	-7.58	<=8	Pass	
		2462	-7.87	<=8	Pass	
802.11g	SISO	2412	-12.84	<=8	Pass	
		2437	-14.29	<=8	Pass	
		2462	-14.46	<=8	Pass	
802.11n (HT20)		2412	-13.21	<=8	Pass	
	SISO	2437	-14.85	<=8	Pass	
		2462	-14.71	<=8	Pass	
Note1: Antenna Gain: Ant1: 2.71dBi;						

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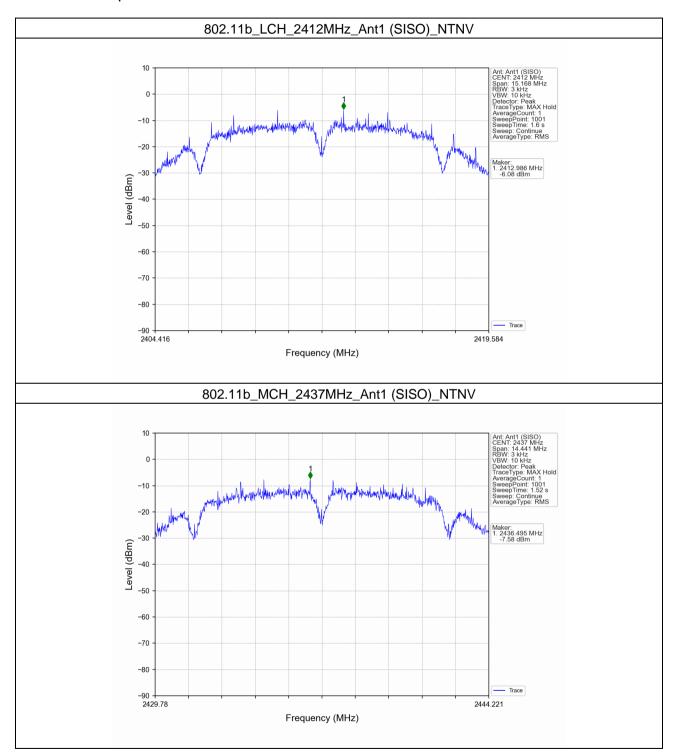
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 81 of 98

4.1.2 Test Graph





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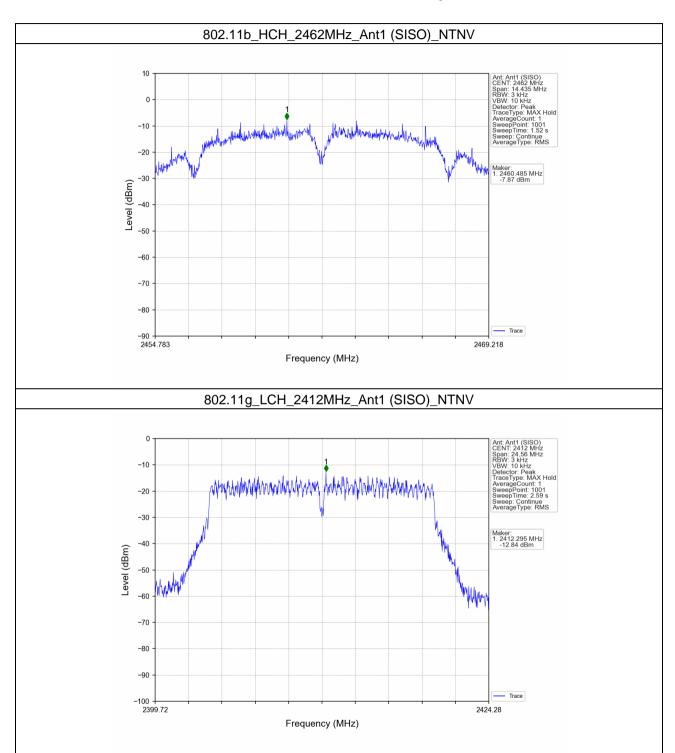
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Report No.: GZCR231000103002

Page: 82 of 98





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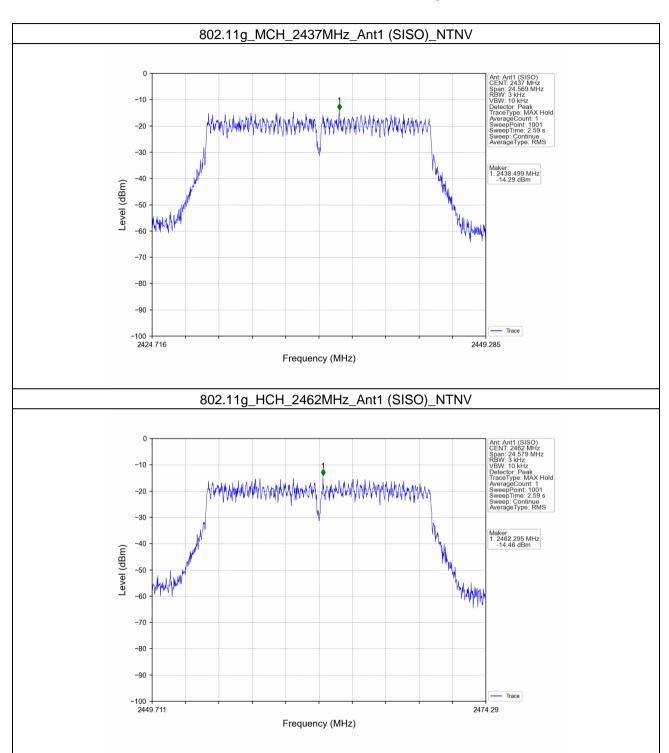
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83 of 98 Page:





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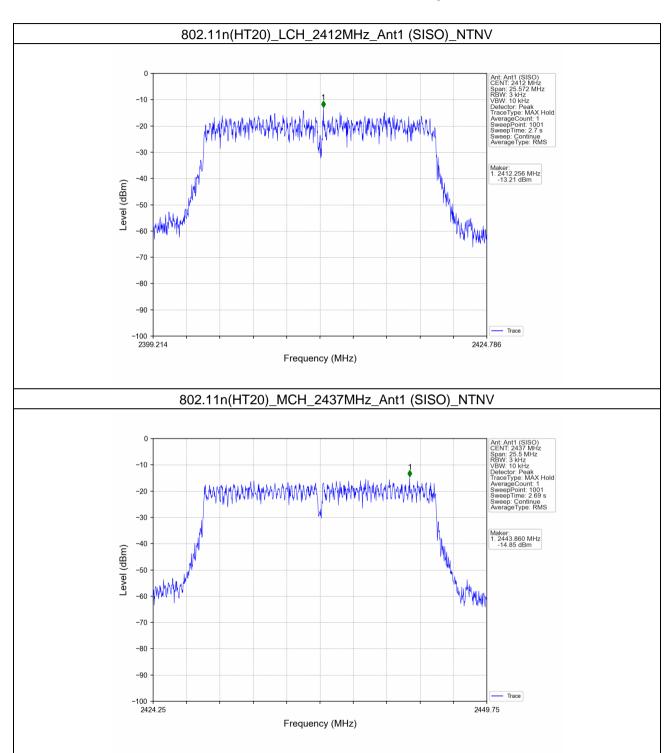
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Page: 84 of 98





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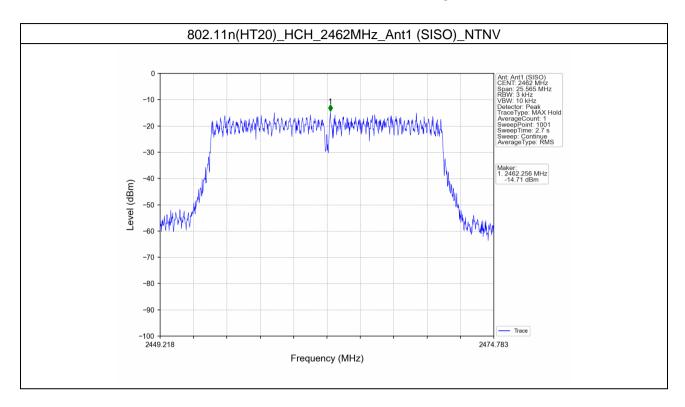
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Page: 85 of 98





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Page: 86 of 98

5. Unwanted Emissions In Non-restricted Frequency Bands

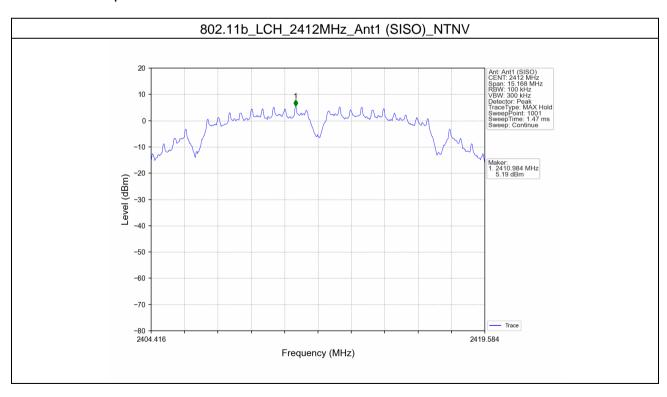
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	
802.11b		2412	1	5.19	
	SISO	2437	1	5.04	
		2462	1	4.69	
802.11g	SISO	2412	1	1.74	
		2437	1	0.94	
		2462	1	0.52	
802.11n (HT20)		2412	1	1.39	
	SISO	2437	1	0.57	
		2462	1	0.30	

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.

5.1.2 Test Graph





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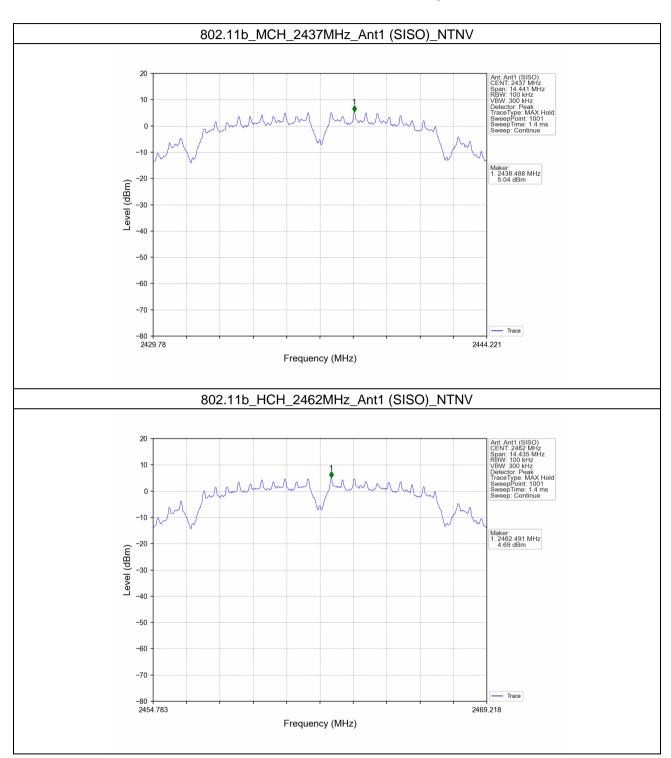
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Page: 87 of 98





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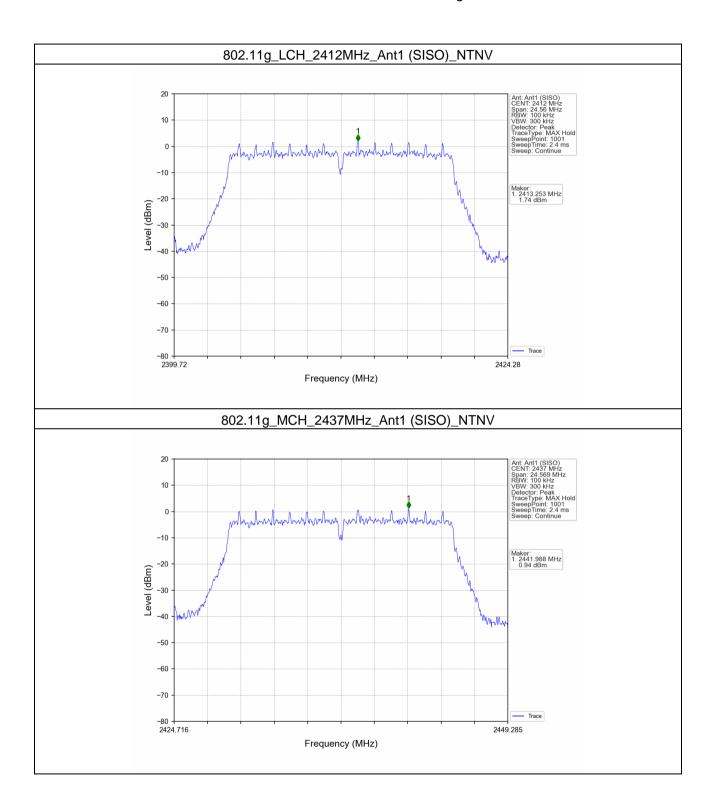
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Page: 88 of 98





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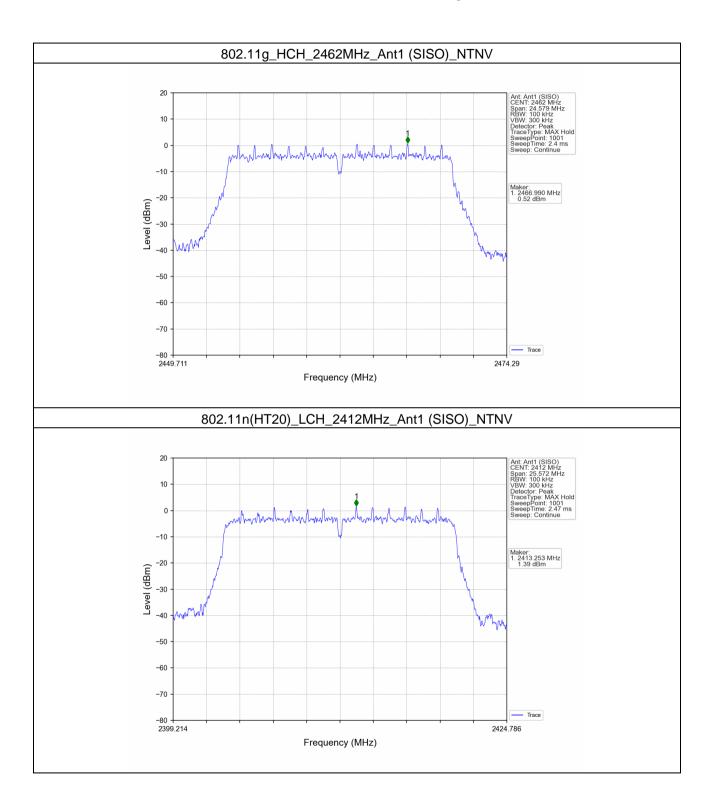
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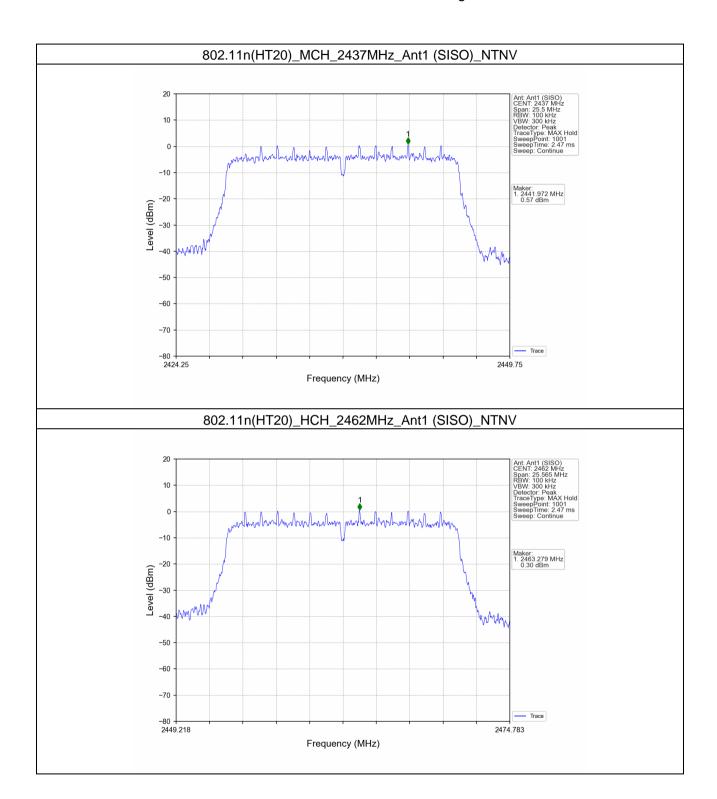
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Page: 91 of 98

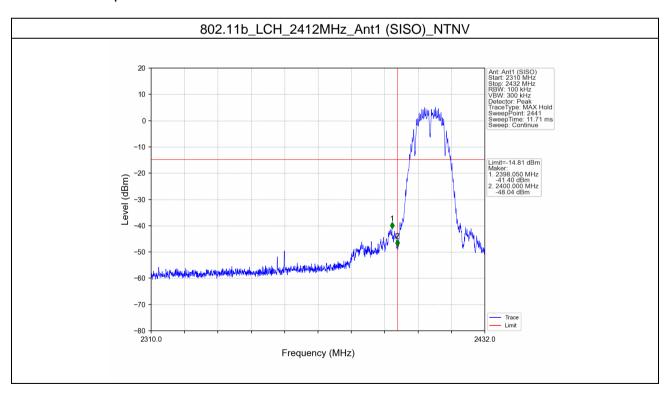
5.2 CSE and Band Edges

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.19	-14.81	Pass
		2437	1	5.19	-14.81	Pass
		2462	1	5.19	-14.81	Pass
802.11g	SISO	2412	1	1.74	-18.26	Pass
		2437	1	1.74	-18.26	Pass
		2462	1	1.74	-18.26	Pass
802.11n (HT20)		2412	1	1.39	-18.61	Pass
	SISO	2437	1	1.39	-18.61	Pass
		2462	1	1.39	-18.61	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.

5.2.2 Test Graph





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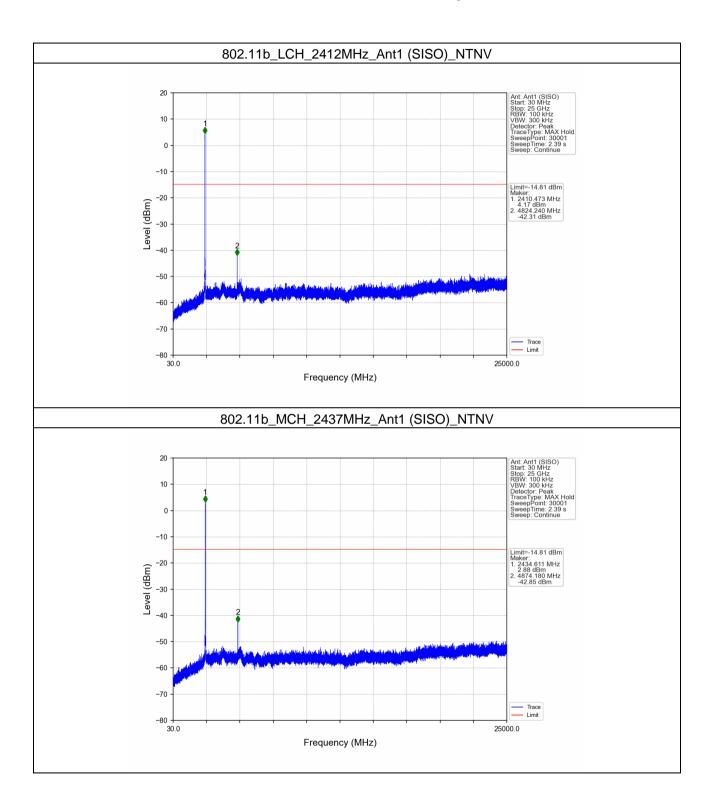
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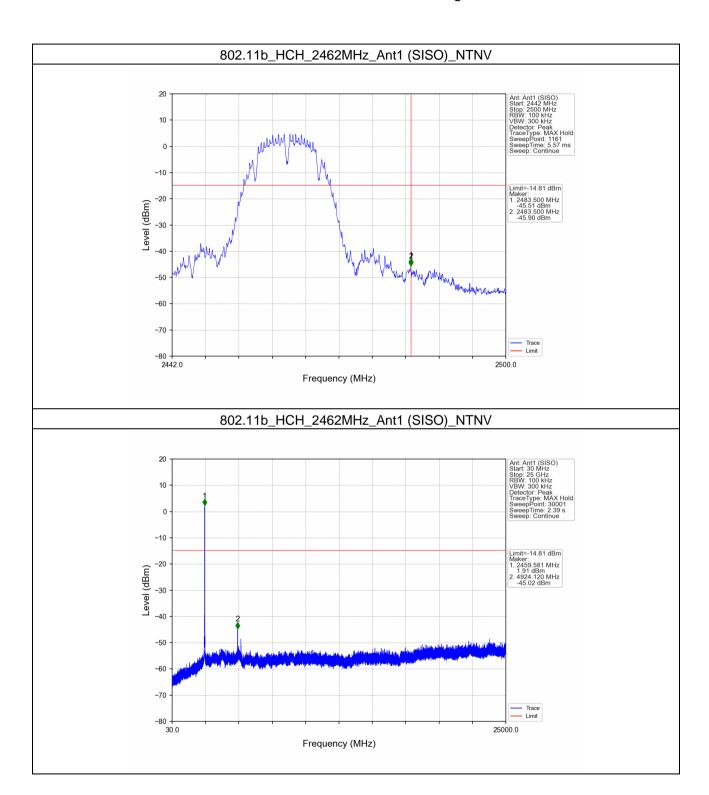
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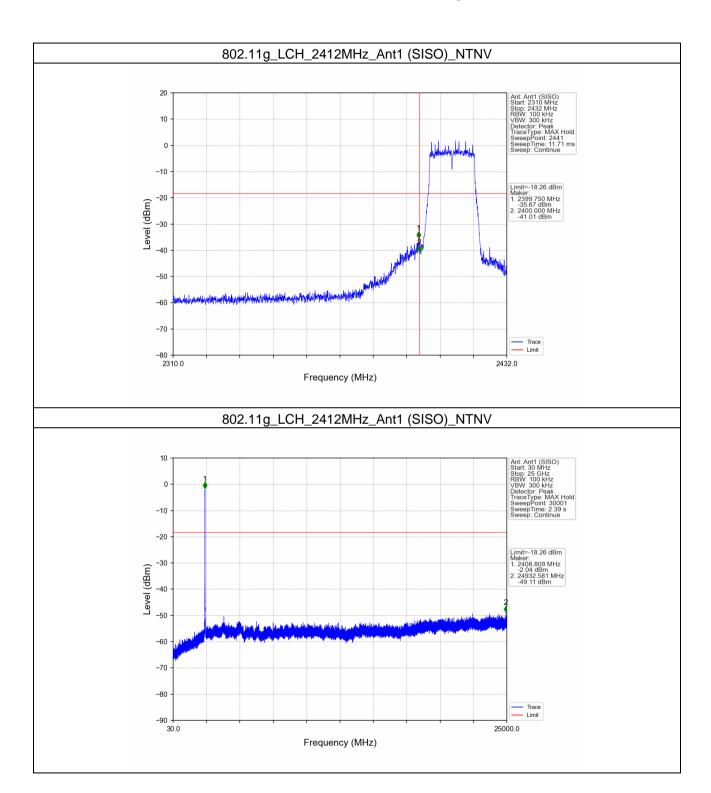
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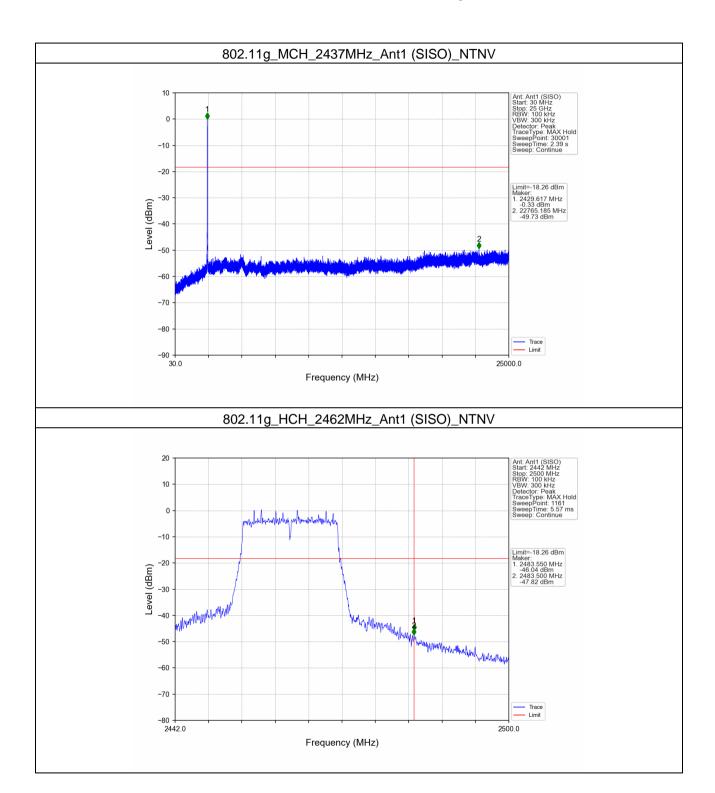
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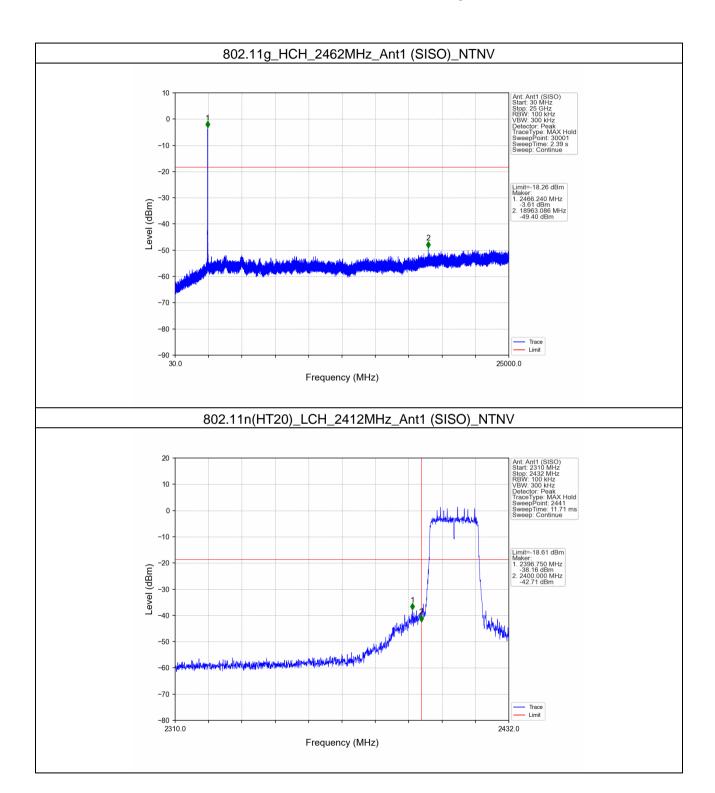
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

96 of 98 Page:





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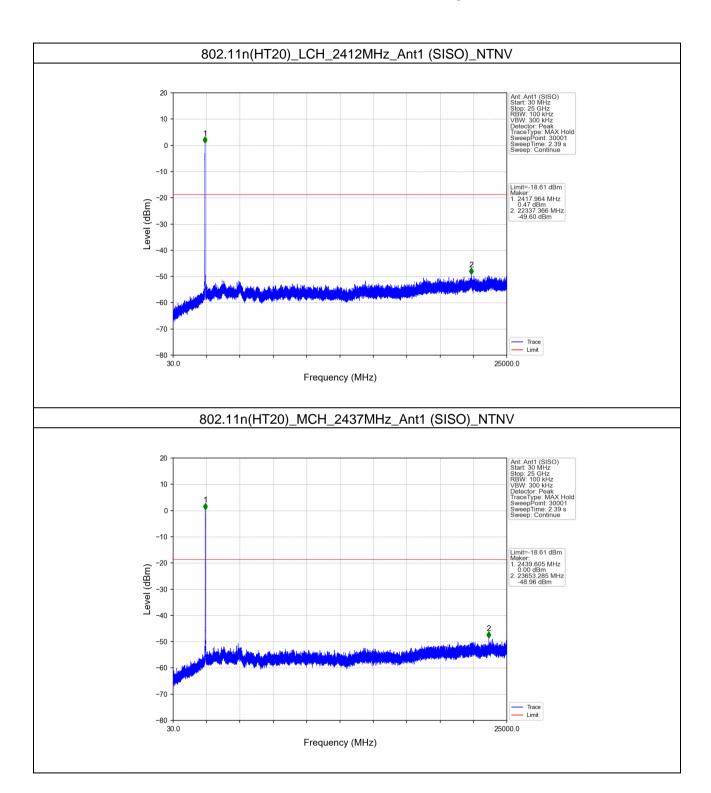
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 97 of 98





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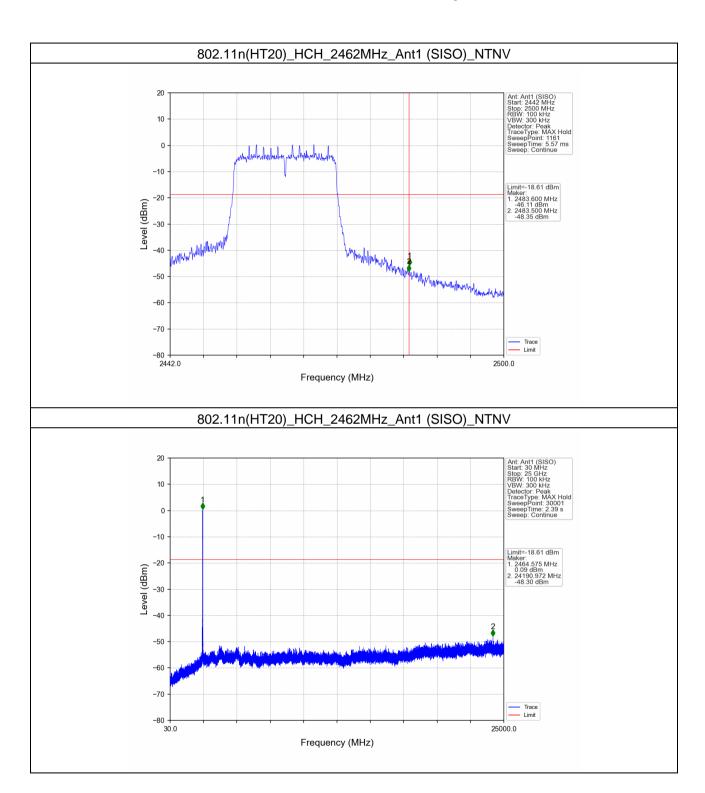
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EMC-TRF-01 Rev 1.1 Report No.: GZCR231000103002

Page: 98 of 98



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