

Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> 1 of 66 Page: FCC ID: PVB-EMJA023

TEST REPORT

Application No.: GZCR2405000485AT

Applicant: The House of Marley. LLC

Address of Applicant: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States

Manufacturer: The House of Marley. LLC

Address of Manufacturer: 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States Shenzhen Great Power Innovation And Technology Enterprise Co., Ltd. Factory: Address of Factory: No. 331, Guiyue Road, Dafu Community, Guanlan Street, Longhua District,

Shenzhen

Product Name: Roots Solar, Rise up Solar Model No.: Roots Solar: EM-JA023, Rise up Solar: EM-JA035 .

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

actually tested and which were electrically identical.

Trade Mark:

Standard(s):

, Marley

47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2024-05-16

Date of Test: 2024-05-21 to 2024-06-19

2024-07-09 Date of Issue:

Pass* Test Result:

3 day Liv Ricky Liu 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.: GZCR240500048503

Page: 2 of 66

	Revision Record					
Version	Report No.	Date	Remark			
01	GZCR240500048503	2024-07-09	Original			

Authorized for issue by		
	Pank Feng	
	Pank Feng/Project Engineer	
	vivo cui	
	Vico Cui/Reviewer	_

检验检测专用章 spection & Testing Services

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EMC-TRF-01 Rev 1.1 Report No.: GZCR240500048503

Page: 3 of 66

Test Summary

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

Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass			
Conducted Peak Output Power	Саоран С 10.2 п	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass			
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass			
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass			
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass			
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass			

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.: EM-JA023, EM-JA035

According to the declaration of the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the model name

Therefore only one EM-JA023 was tested in this report.



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EMC-TRF-01 Rev 1.1

Report No.: GZCR240500048503

Page: 4 of 66

3 **Contents**

		Page
1	1 Cover Page	1
2	2 Test Summary	3
3	3 Contents	4
4	4 General Information	6
•		
	4.1 Details of E.U.T	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	8
5	5 Equipment List	9
6	6 Radio Spectrum Technical Requirement	12
٠		
	6.1 Antenna Requirement	
	6.1.2 Conclusion	
7	7 Radio Spectrum Matter Test Results	
•	•	
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.4 Measurement Procedure and Data	
	7.2 Radiated Emissions which fall in the restricted bands	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	17
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Radiated Spurious Emissions Below 1GHz	
	7.3.1 E.U.T. Operation	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Radiated Spurious Emissions Above 1GHz	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	27
	7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	
	7.5 Conducted Peak Output Power	
	7.5.1 E.U.T. Operation	
	7.5.2 Test Mode Description	
	7.5.5 Test Setup Diagram	



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EMC-TRF-01 Rev 1.1

Report No.: GZCR240500048503

Page: 5 of 66

7.6 Minimum 6dB Bandwidth	37
7.6.1 E.U.T. Operation	37
7.6.2 Test Mode Description	37
7.6.3 Test Setup Diagram	37
7.6.4 Measurement Procedure and Data	37
7.7 Power Spectrum Density	38
7.7.1 E.U.T. Operation	38
7.7.2 Test Mode Description	38
7.7.3 Test Setup Diagram	38
7.7.4 Measurement Procedure and Data	38
7.8 Conducted Band Edges Measurement	39
7.8.1 E.U.T. Operation	39
7.8.2 Test Mode Description	39
7.8.3 Test Setup Diagram	40
7.8.4 Measurement Procedure and Data	40
7.9 Conducted Spurious Emissions	41
7.9.1 E.U.T. Operation	41
7.9.2 Test Mode Description	41
7.9.3 Test Setup Diagram	42
7.9.4 Measurement Procedure and Data	42
8 Test Setup Photo	43
9 EUT Constructional Details (EUT Photos)	44
10 Appendix	45



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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> Page: 6 of 66

General Information

4.1 Details of E.U.T.

Power supply: DC 5V for charging (power by AC/DC adaptor provided lab)

Battery operation: DC 3.7V internal rechargeable battery as below:

Model: 18650

Rated: DC 3.7V, 9.62Wh, 2600mAh

Test Voltage: AC 120 V, 60 Hz & DC 3.7V

Operation Frequency: 2402MHz to 2480MHz

GFSK Modulation Type: Number of Channels: 40 **Channel Spacing:** 2MHz

Antenna Gain: -0.58dBi according to antenna specification

Antenna Type: PCB Antenna

Antenna Number:

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ			
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			



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EMC-TRF-01 Rev 1.1 Report No.: GZCR240500048503

Page: 7 of 66

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz- 30MHz)	±2.76dB
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)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB

Remark:

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

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

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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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> Page: 8 of 66

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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Report No.: GZCR240500048503

Page: 9 of 66

5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
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	2024-05-13	2025-05-12	
Test Software E3r	Audix	Ver.6.11812	GZE100-77	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	2023-12-20	2026-12-19	
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A	



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Report No.: GZCR240500048503

Page: 10 of 66

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	2024-03-22	2025-03-21	
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	2024-04-08	2026-04-07	

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	2023-12-20	2026-12-19	
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.: GZCR240500048503

Page: 11 of 66

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MI CABLE	SGS-EMC	0.8M	EMC2136	2023-11-02	2025-11-01
4X4 Power sensor Unit	TST	TSPS2023R	EMC2257	2023-08-23	2024-08-22
MXG Vector Signal Generator	Keysight	N5182B	EMC2258	2023-08-23	2024-08-22
Test Software	TST	V2.0	GZE100-82	N/A	N/A
EXA Signal Analyzer	Agilent Technologies	N9010A	EMC2222	2024-06-17	2025-06-16

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2024-06-13	2025-06-12



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> Page: 12 of 66

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 -0.58 dBi.

Antenna location: Refer to internal photo.



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Page: 13 of 66

Radio Spectrum Matter Test Results 7

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

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

Limit:

Average 56 to 46*							
56 to 46*							
46							
50							
*Decreases with the logarithm of the frequency.							
1							

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C Humidity: 49.8 % RH Atmospheric Pressure: 1003 mbar

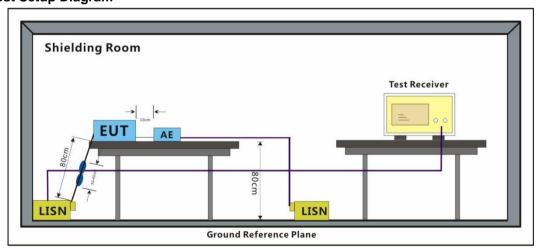
7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
_		Charge + TX mode(2Mbps) Keep the EUT in charging and continuously

Pre-scan 09 transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram

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> Page: 14 of 66

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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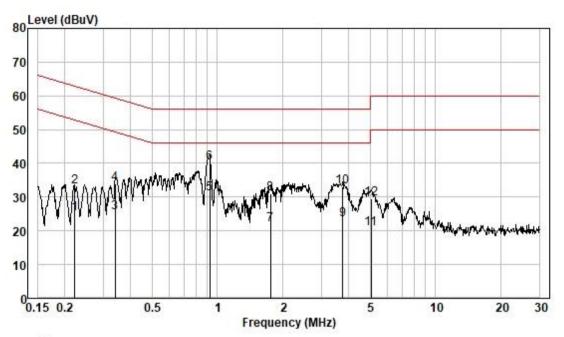
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Page: 15 of 66

Test Mode: 08; 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	0.222	15.38	0.04	9.55	24.97	52.74	-27.77	Average
2	0.222	23.38	0.04	9.55	32.97	62.74	-29.77	QP
3	0.339	15.75	0.05	9.57	25.37	49.22	-23.85	Average
4	0.339	24.34	0.05	9.57	33.96	59.22	-25.26	QP
5	0.923	21.33	0.07	9.57	30.97	46.00	-15.03	Average
6	0.923	30.53	0.07	9.57	40.17	56.00	-15.83	QP
7	1.753	12.19	0.11	9.57	21.87	46.00	-24.13	Average
8	1.753	21.37	0.11	9.57	31.05	56.00	-24.95	QP
9	3.759	13.63	0.17	9.60	23.40	46.00	-22.60	Average
10	3.759	23.16	0.17	9.60	32.93	56.00	-23.07	QP
11	5.058	10.74	0.20	9.63	20.57	50.00	-29.43	Average
12	5.058	19.80	0.20	9.63	29.63	60.00	-30.37	QP



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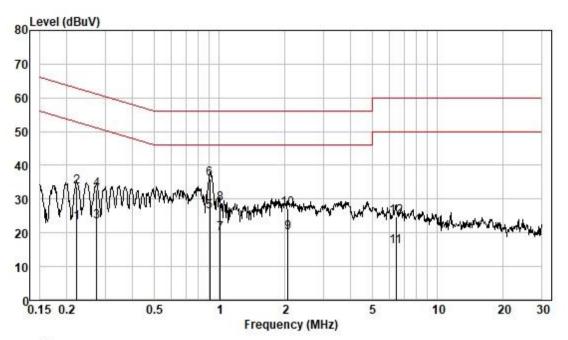


Rev 1.1 EMC-TRF-01

Report No.: GZCR240500048503

Page: 16 of 66

Test Mode: 08; 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	0.222	13.60	0.04	9.53	23.17	52.74	-29.57	Average
2	0.222	24.04	0.04	9.53	33.61	62.74	-29.13	QP
3	0.273	13.71	0.04	9.53	23.28	51.03	-27.75	Average
4	0.273	23.32	0.04	9.53	32.89	61.03	-28.14	QP
5	0.904	16.78	0.07	9.55	26.40	46.00	-19.60	Average
6	0.904	26.44	0.07	9.55	36.06	56.00	-19.94	QP
7	1.010	10.22	0.07	9.55	19.84	46.00	-26.16	Average
8	1.010	18.94	0.07	9.55	28.56	56.00	-27.44	QP
9	2.066	10.37	0.13	9.55	20.05	46.00	-25.95	Average
10	2.066	17.50	0.13	9.55	27.18	56.00	-28.82	QP
11	6.454	6.00	0.22	9.67	15.89	50.00	-34.11	Average
12	6.454	15.04	0.22	9.67	24.93	60.00	-35.07	QP



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> Page: 17 of 66

7.2 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 6.10.5

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
Above 960	500	3

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

7.2.1 E.U.T. Operation

Operating Environment:

25.0 °C Atmospheric Pressure: 1003 mbar Temperature: Humidity: 54.9 % RH

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Pre-scan	07	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with

GFSK modulation.



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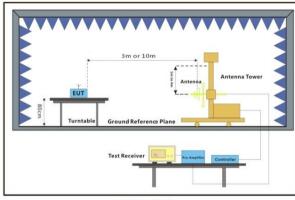
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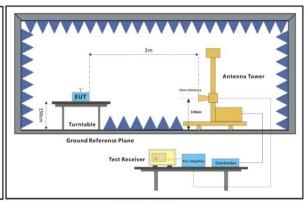


EMC-TRF-01 **Rev 1.1** Report No.: GZCR240500048503

Page: 18 of 66

7.2.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the 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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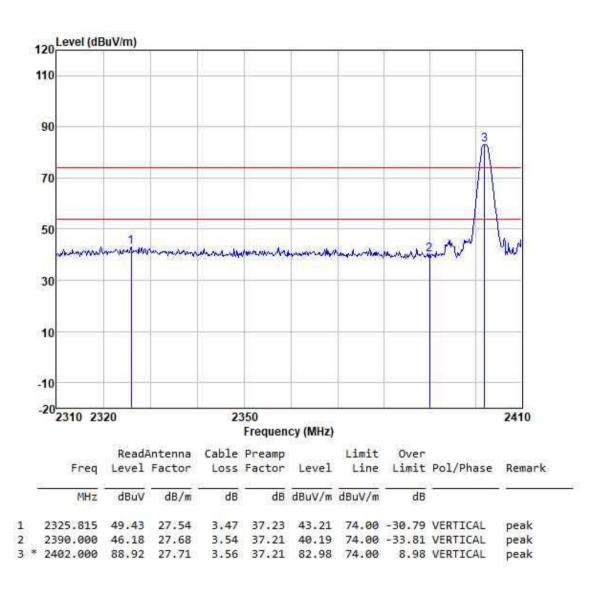
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Page: 19 of 66

Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: Low





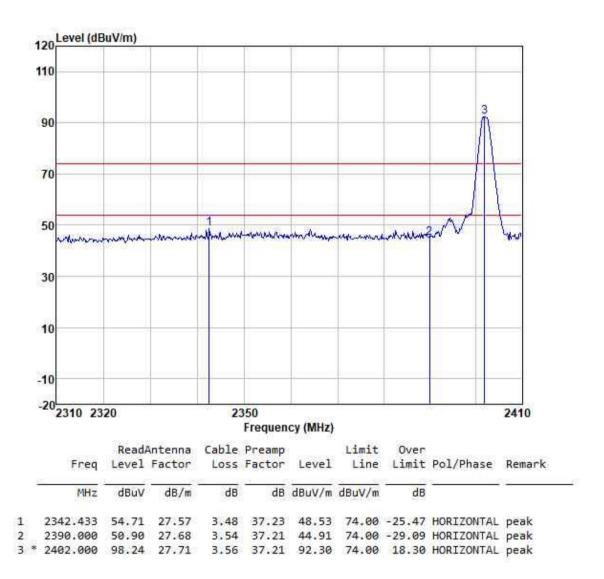
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Page: 20 of 66

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low





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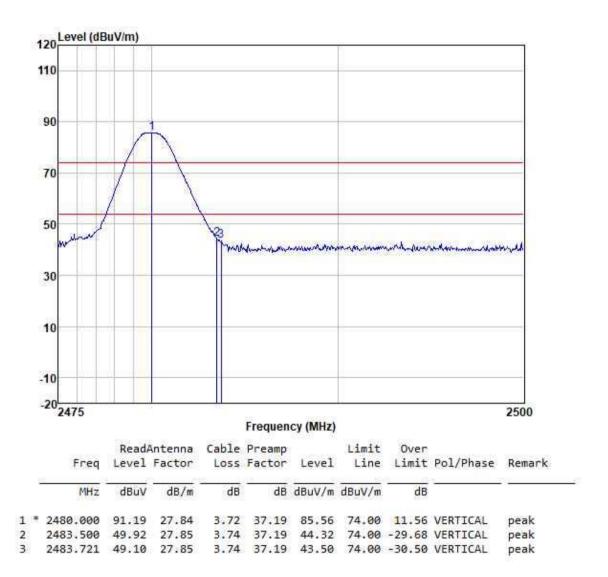


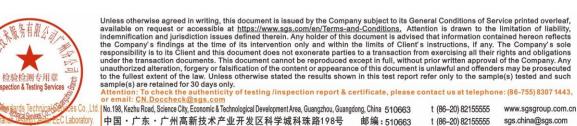
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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: High





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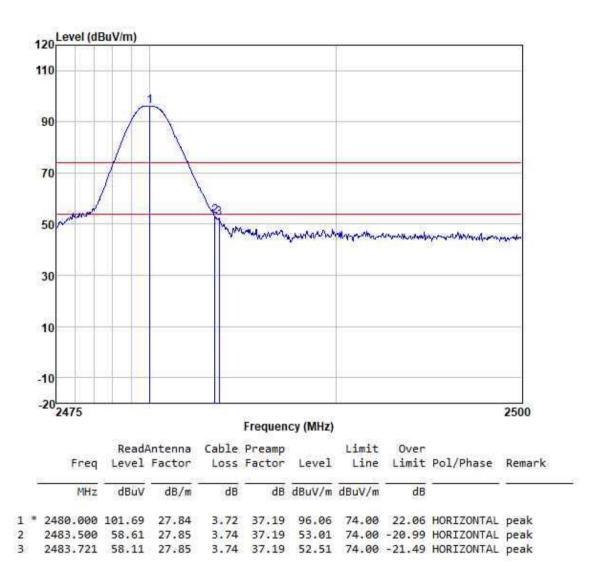
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Page: 22 of 66

Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High





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EMC-TRF-01 Rev 1.1 Report No.: GZCR240500048503

Page: 23 of 66

7.3 Radiated Spurious Emissions Below 1GHz

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

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

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 51.1 % RH Atmospheric Pressure: 1003 mbar

7.3.2 Test Mode Description

Mode Pre-scan / Description Final test Code

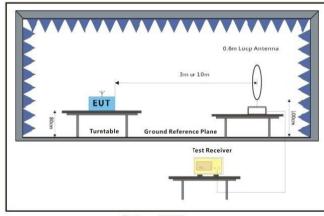
TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with Final test 06

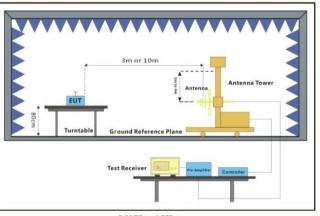
GFSK modulation.

TX mode(2Mbps) Keep the EUT in continuously transmitting mode with Pre-scan 07

GFSK modulation.

7.3.3 Test Setup Diagram





30MHz-1GHz Below 30MHz



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Report No.: GZCR240500048503 FMC-TRF-01 Rev 1.1

> Page: 24 of 66

7.3.4 Measurement Procedure and Data

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



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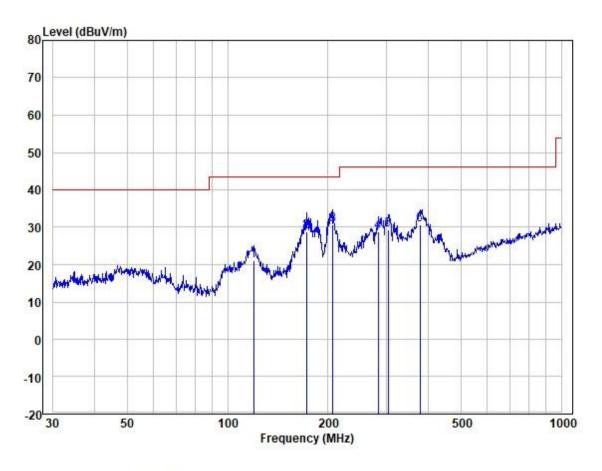


Rev 1.1 EMC-TRF-01

Report No.: GZCR240500048503

Page: 25 of 66

Test Mode: 06; Polarity: Horizontal



Site : 966 Chamber

Job Model Power

Test Mode : CHARGE + BT

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	***	
1	119.856	36.05	17.26	0.60	32.80	21.11	43.52	-22.41	HORIZONTAL	QP
2	172.599	42.41	18.49	0.73	32.80	28.83	43.52	-14.69	HORIZONTAL	QP
3	206.398	46.94	15.70	0.80	32.80	30.64	43.52	-12.88	HORIZONTAL	QP
4	282.985	41.75	18.91	0.96	32.80	28.82	46.02	-17.20	HORIZONTAL	QP
5	302.481	41.77	19.31	0.98	32.80	29.26	46.02	-16.76	HORIZONTAL	QP
6	377.259	41.45	20.90	1.14	32.80	30.69	46.02	-15.33	HORIZONTAL	QP



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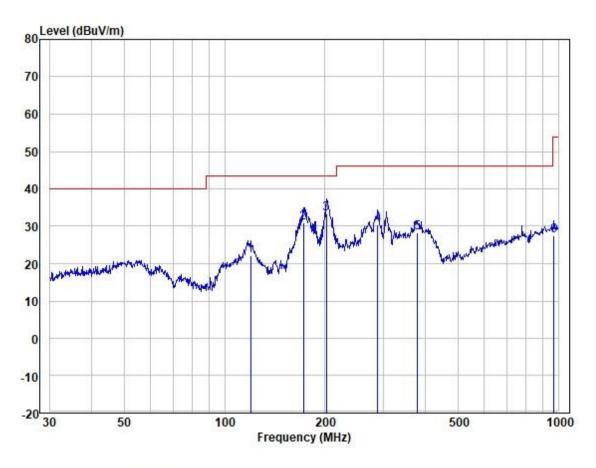


Rev 1.1 EMC-TRF-01

Report No.: GZCR240500048503

Page: 26 of 66

Test Mode: 06; Polarity: Vertical



Site : 966 Chamber

Job Model Power

Test Mode : CHARGE + BT

	Freq				C C C C C C C C C C C C C C C C C C C	Measured Level				Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	119.856	37.08	17.26	0.60	32.80	22.14	43.52	-21.38	VERTICAL	QP
2	172.599	44.64	18.49	0.73	32.80	31.06	43.52	-12.46	VERTICAL	QP
3	202.100	49.52	15.77	0.79	32.80	33.28	43.52	-10.24	VERTICAL	QP
4	286.982	43.14	19.01	0.97	32.80	30.32	46.02	-15.70	VERTICAL	QP
5	378.584	39.12	20.92	1.14	32.80	28.38	46.02	-17.64	VERTICAL	QP
6	968.934	26.75	29.78	1.82	30.88	27.47	53.98	-26.51	VERTICAL	QP



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EMC-TRF-01 Rev 1.1

Report No.: GZCR240500048503

Page: 27 of 66

7.4 Radiated Spurious Emissions Above 1GHz

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

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

Limit:

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 54.9 % RH Atmospheric Pressure: 1003 mbar

7.4.2 Test Mode Description

Mode Pre-scan / Description Final test Code

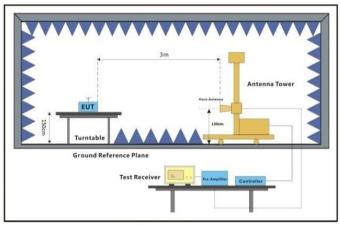
TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with Final test 06

GFSK modulation.

TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with Pre-scan 07

GFSK modulation.

7.4.3 Test Setup Diagram



Above 1GHz



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Report No.: GZCR240500048503 FMC-TRF-01 Rev 1.1

> Page: 28 of 66

7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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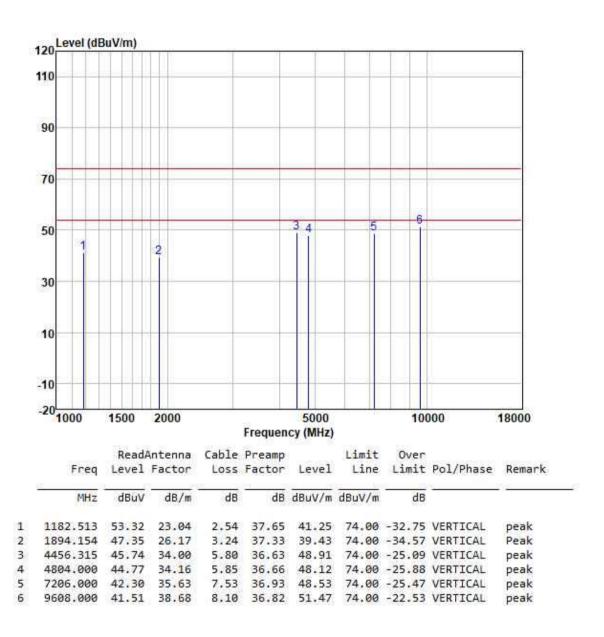
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EMC-TRF-01 Rev 1.1 Report No.: GZCR240500048503

Page: 29 of 66

Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: Low





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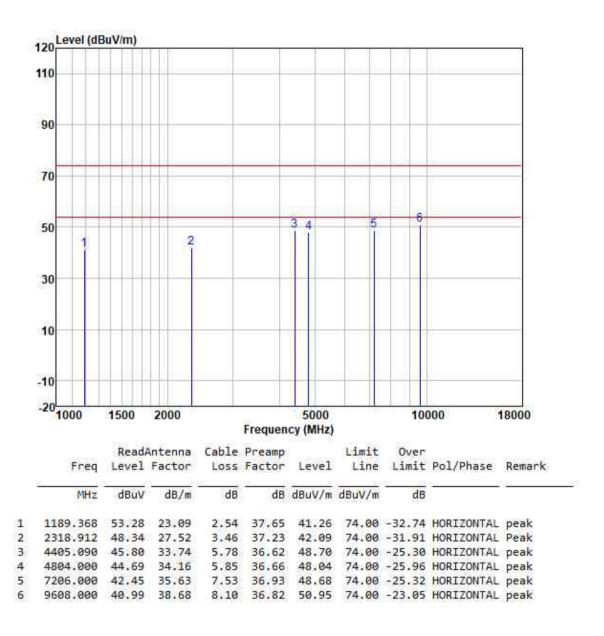
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Page: 30 of 66

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low





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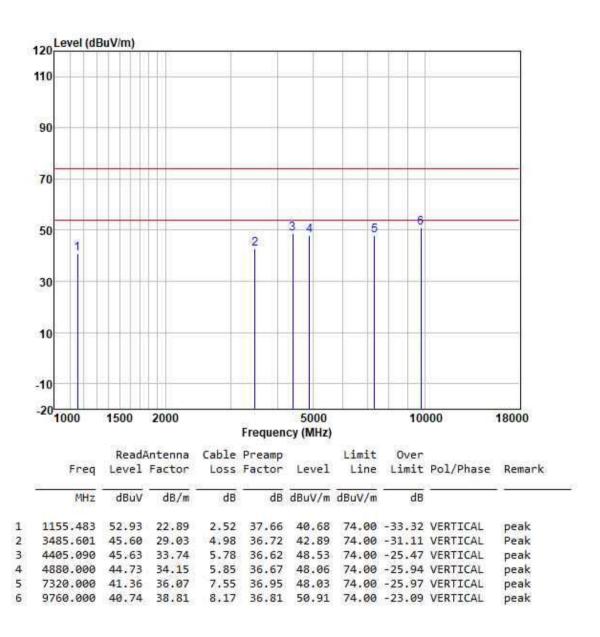
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Page: 31 of 66

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle





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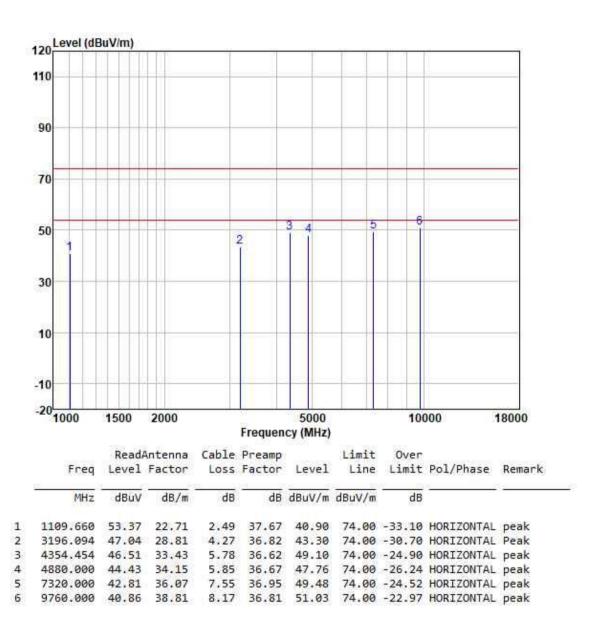
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Page: 32 of 66

Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle





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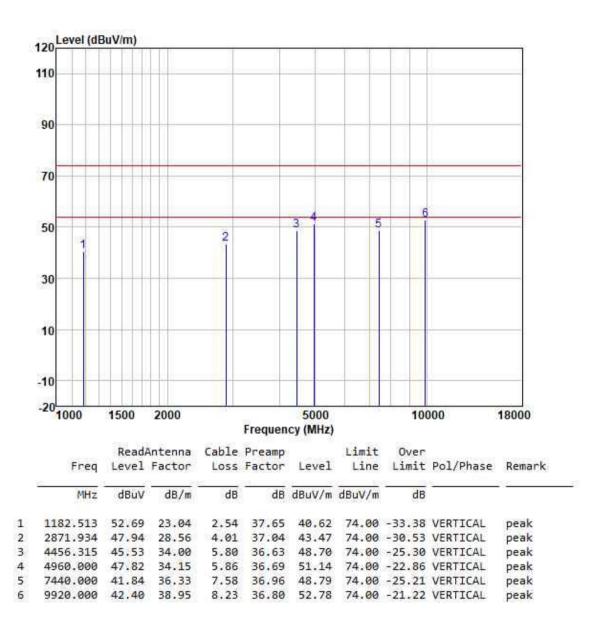
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Page: 33 of 66

Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High





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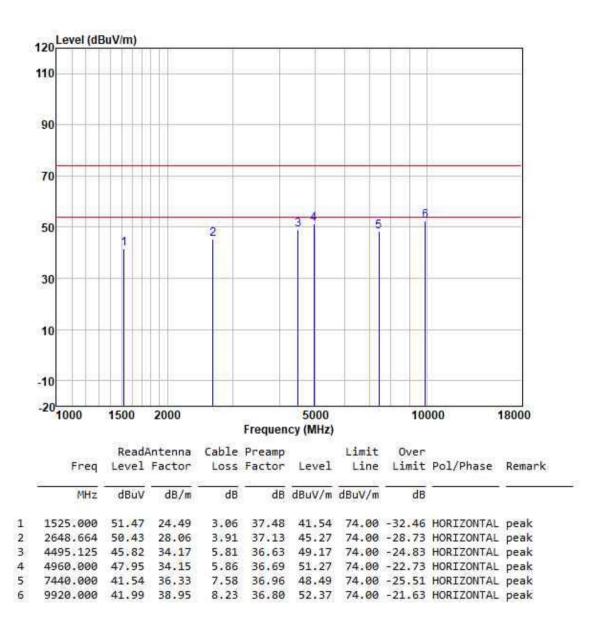
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Page: 34 of 66

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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> 35 of 66 Page:

7.5 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) ANSI C63.10 (2013) Section 11.9.1 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 64.6 % RH Atmospheric Pressure: 1003 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GESK modulation



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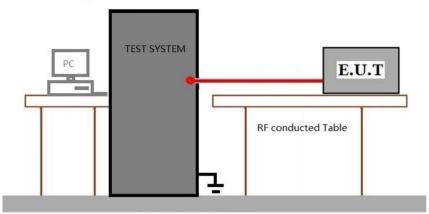
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36 of 66 Page:

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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EMC-TRF-01 Rev 1.1 Report No.: GZCR240500048503

Page: 37 of 66

7.6 Minimum 6dB Bandwidth

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

Limit: ≥500 kHz

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Atmospheric Pressure: 1003 mbar Humidity: 64.6 % RH

7.6.2 Test Mode Description

Mode Pre-scan / Description Final test Code

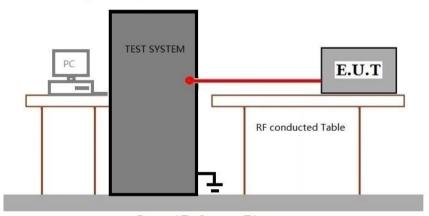
TX mode(1Mbps) Keep the EUT in continuously transmitting mode with Final test 06

GFSK modulation.

TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with Final test 07

GFSK modulation.

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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38 of 66 Page:

7.7 Power Spectrum Density

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

Limit:

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

7.7.1 E.U.T. Operation

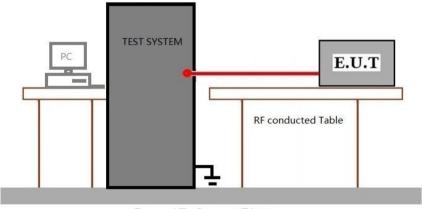
Operating Environment:

Humidity: 64.6 % RH Atmospheric Pressure: 1003 mbar Temperature: 21.9 °C

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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> Page: 39 of 66

7.8 Conducted Band Edges Measurement

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

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Humidity: 64.6 % RH Temperature: 21.9 °C Atmospheric Pressure: 1003 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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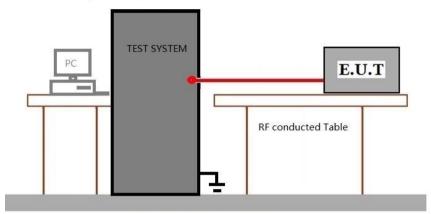
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Page: 40 of 66

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> Page: 41 of 66

7.9 Conducted Spurious Emissions

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

Limit:

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

7.9.1 E.U.T. Operation

Operating Environment:

Humidity: 64.6 % RH Temperature: 21.9 °C Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	07	TX mode(2Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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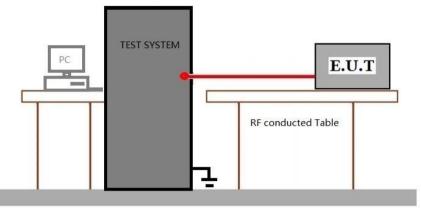
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Page: 42 of 66

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for GZCR240500048503



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> Page: 44 of 66

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2405000485AT



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Page: 45 of 66

10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

检验检测专用章

	Ant1								
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)		
	2402	0.172	0.625	27.52	5.60	0.03			
1M	SISO	2440	0.172	0.625	27.52	5.60	0.03		
		2480	0.147	0.625	23.52	6.29	0.00		
2M SISO	2402	0.135	0.625	21.60	6.66	0.00			
	SISO	2440	0.136	0.625	21.76	6.62	0.03		
		2480	0.136	0.625	21.76	6.62	0.03		



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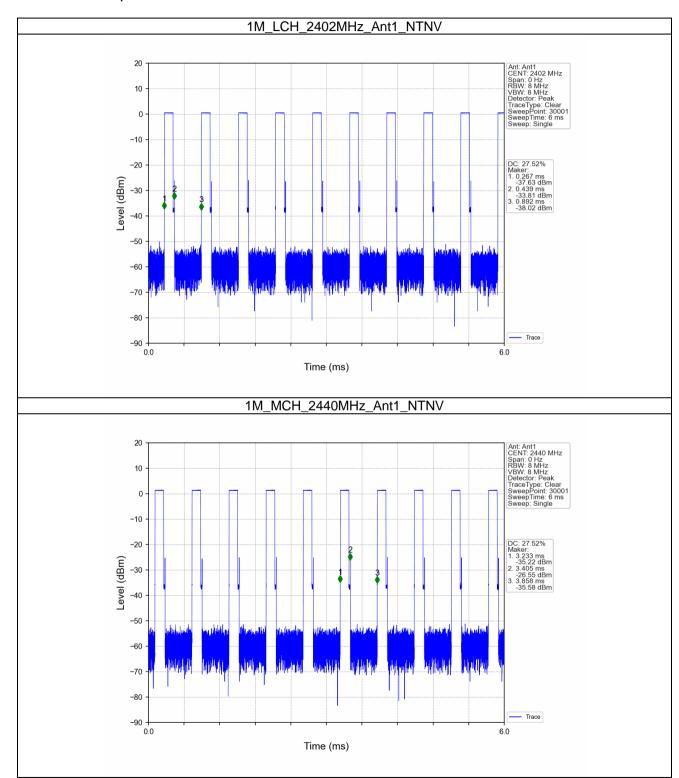
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Page: 46 of 66

1.1.2 Test Graph





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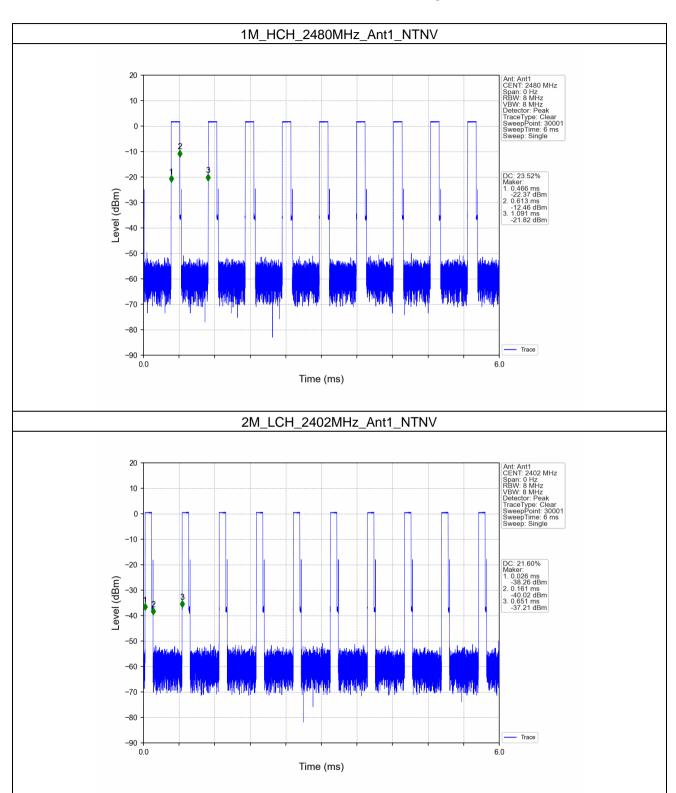
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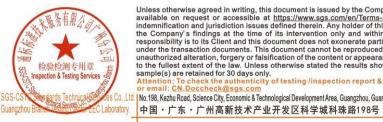
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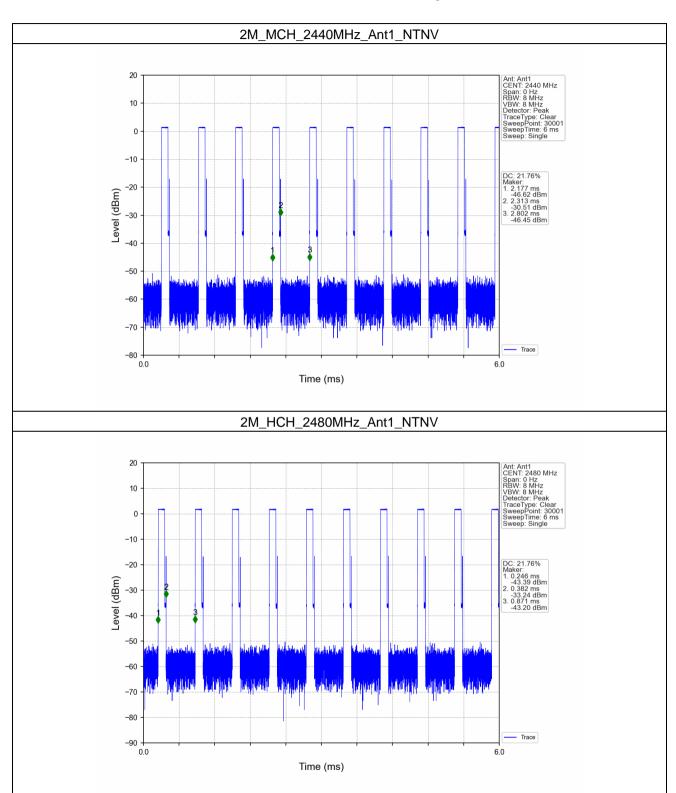
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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> Page: 49 of 66

2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

检验检测专用章

Mode	TX Type	Frequency (MHz) ANT	4 N.I.T.	6dB Bandwidth (MHz)		Verdict
			Result	Limit		
	SISO	2402	1	0.506	>=0.5	Pass
1M		2440	1	0.507	>=0.5	Pass
		2480	1	0.508	>=0.5	Pass
	SISO	2402	1	0.849	>=0.5	Pass
2M		2440	1	0.846	>=0.5	Pass
		2480	1	0.842	>=0.5	Pass



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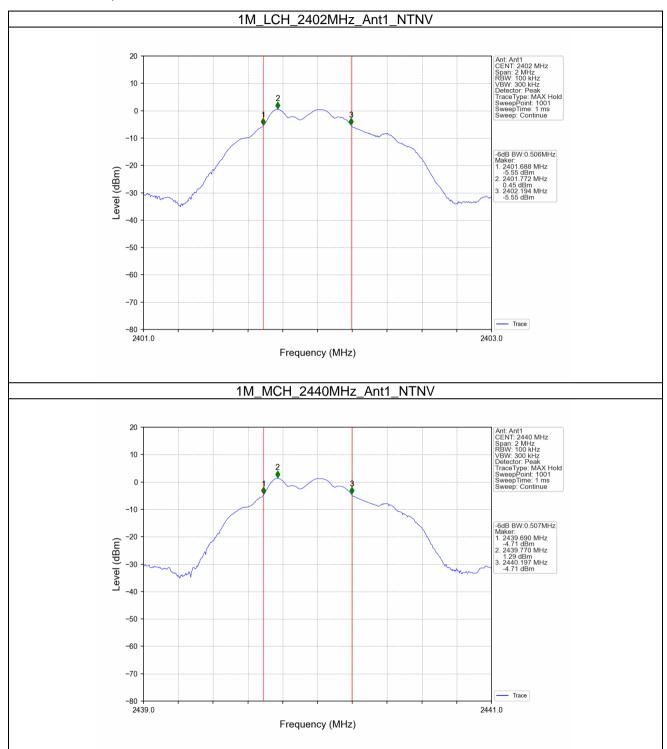
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50 of 66 Page:

2.1.2 Test Graph





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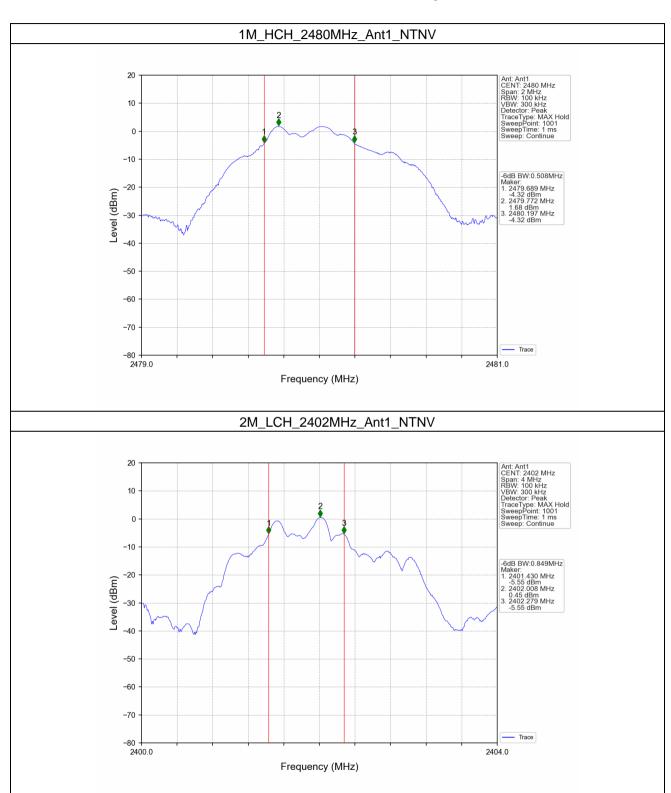
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51 of 66 Page:





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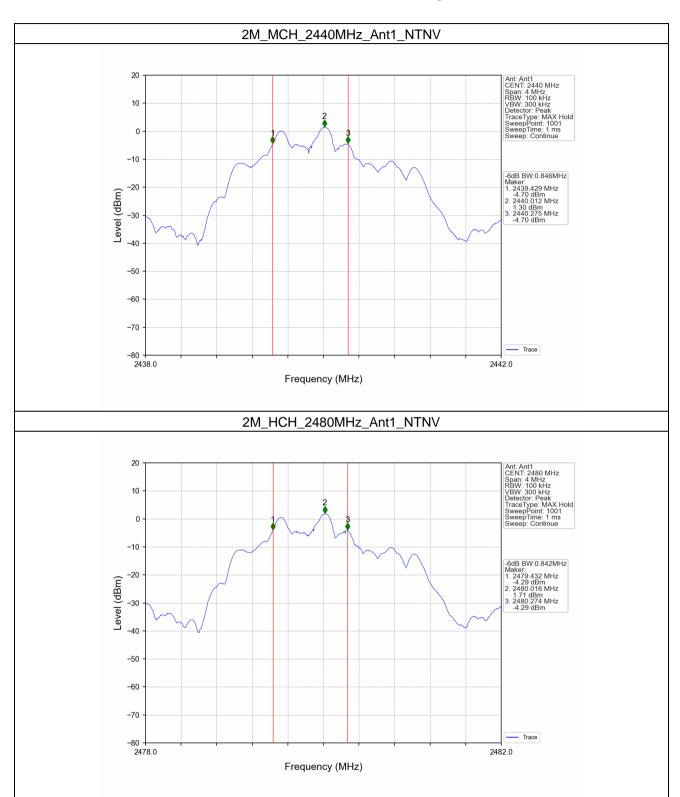
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52 of 66 Page:





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Report No.: GZCR240500048503 EMC-TRF-01 Rev 1.1

> Page: 53 of 66

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency (MHz)	Maximum Peak Conduc	\/o =diot			
	Type		ANT1	Limit	Verdict		
	SISO	2402	0.46	<=30	Pass		
1M		2440	1.30	<=30	Pass		
		2480	1.71	<=30	Pass		
	SISO	2402	0.52	<=30	Pass		
2M		2440	1.38	<=30	Pass		
		2480	1.78	<=30	Pass		
Note1: Anter	Note1: Antenna Gain: Ant1: -0.58dBi;						

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> Page: 54 of 66

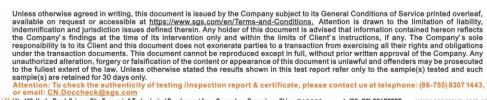
4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

检验检测专用章

Mode	TX Type	Frequency	Maximum PS	\/ad;a.t	
		(MHz)	ANT1	Limit	Verdict
1M		2402	-9.45	<=8	Pass
	SISO	2440	-8.69	<=8	Pass
		2480	-8.18	<=8	Pass
2M	SISO	2402	-9.96	<=8	Pass
		2440	-9.15	<=8	Pass
		2480	-8.54	<=8	Pass



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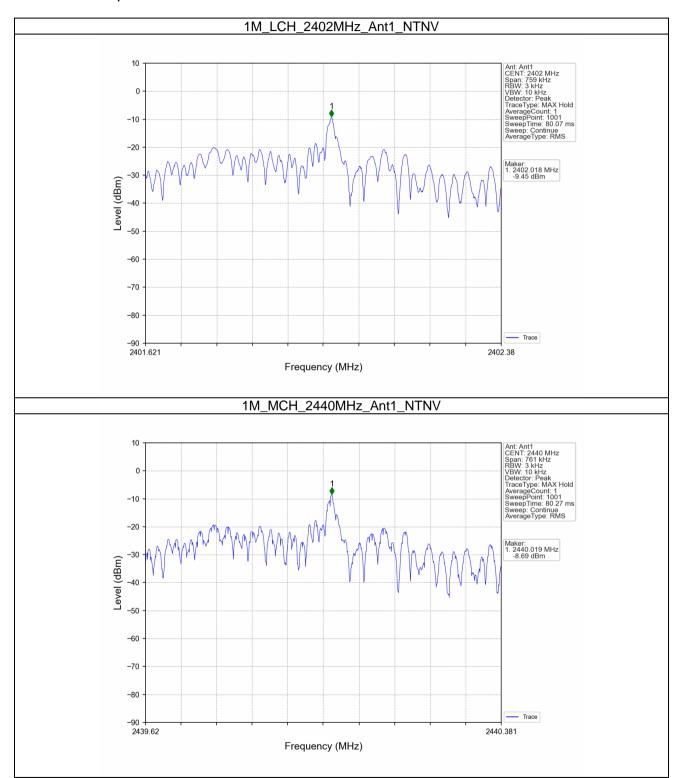
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Page: 55 of 66

4.1.2 Test Graph





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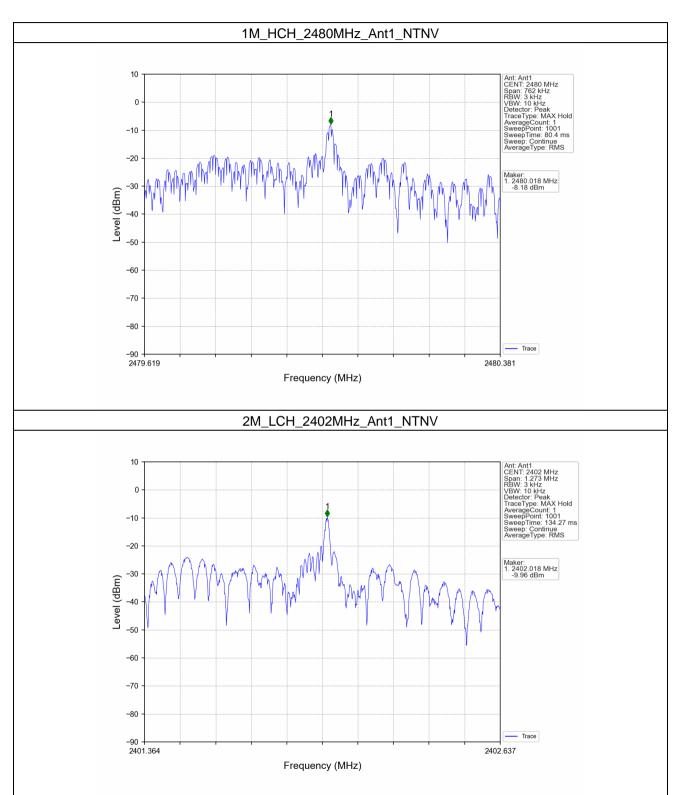
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Page: 56 of 66





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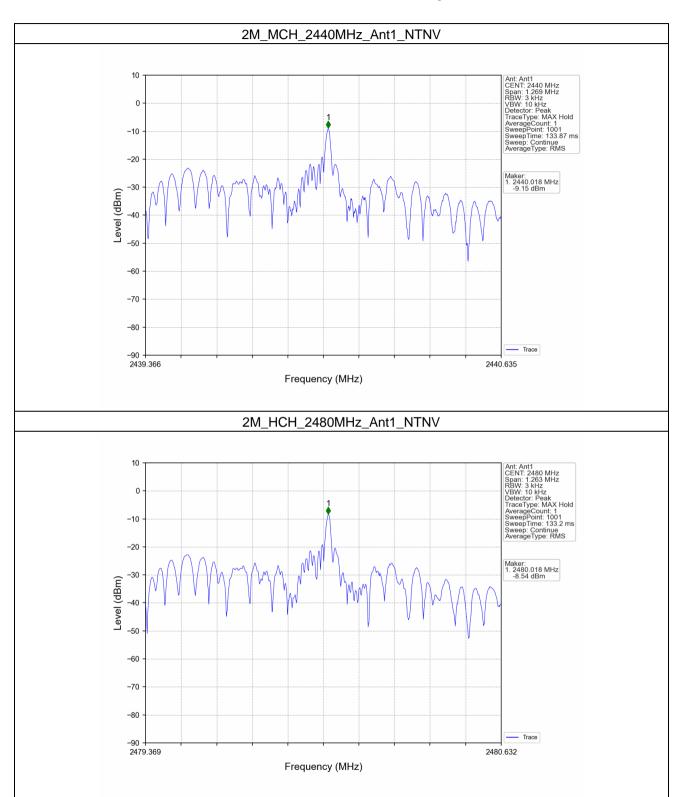
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Page: 57 of 66





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EMC-TRF-01 Rev 1.1

Report No.: GZCR240500048503

58 of 66 Page:

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)
		2402	1	0.45
1M	SISO	2440	1	1.29
		2480	1	1.68
2M	SISO	2402	1	0.40
		2440	1	1.26
		2480	1	1.67

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 CSE and Band Edges

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	1.68	-18.32	Pass
1M	SISO	2440	1	1.68	-18.32	Pass
		2480	1	1.68	-18.32	Pass
		2402	1	1.67	-18.33	Pass
2M	SISO	2440	1	1.67	-18.33	Pass
		2480	1	1.67	-18.33	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.



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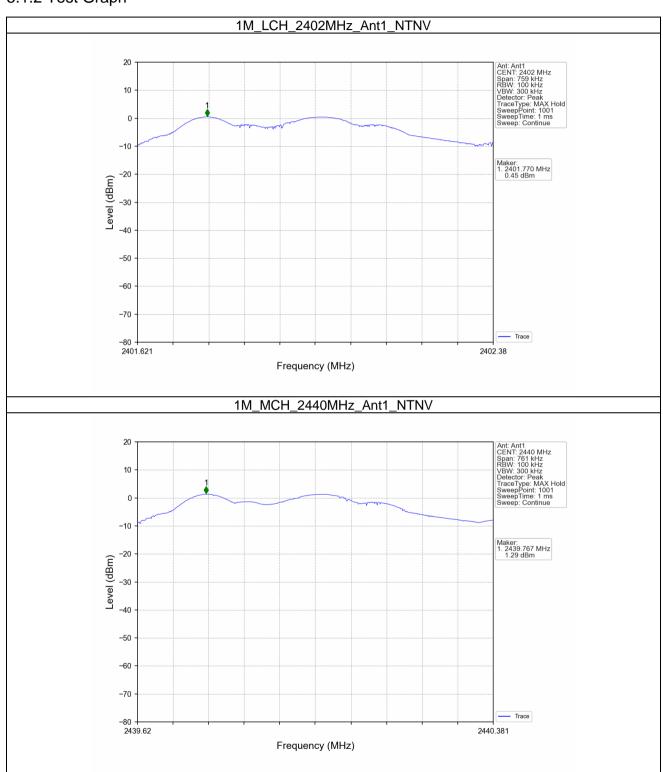


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Page: 59 of 66

5.1 Ref

5.1.2 Test Graph





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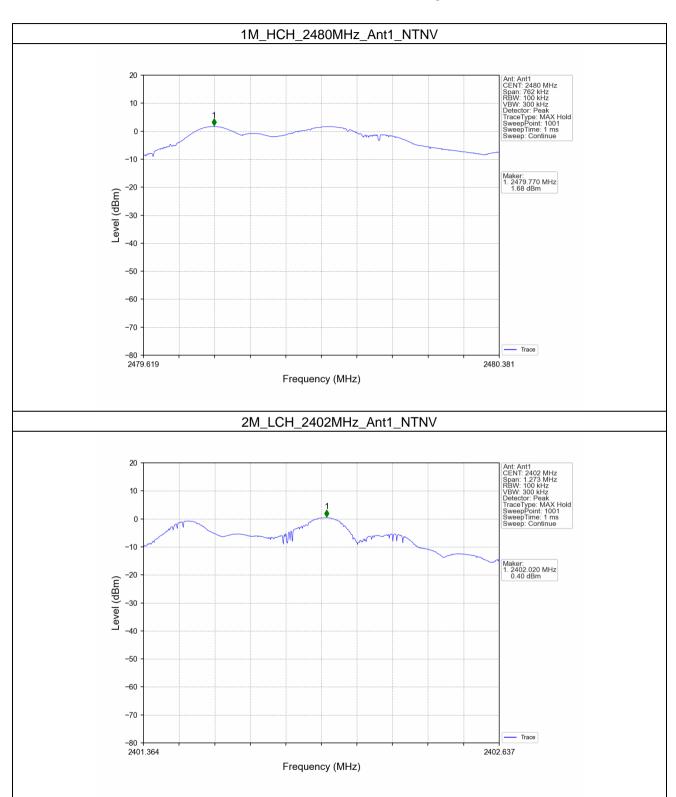
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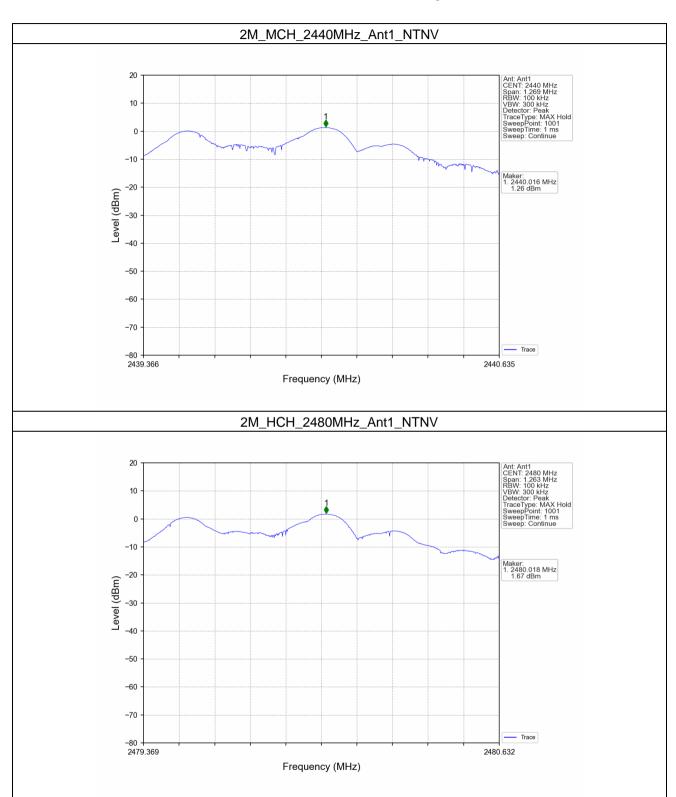
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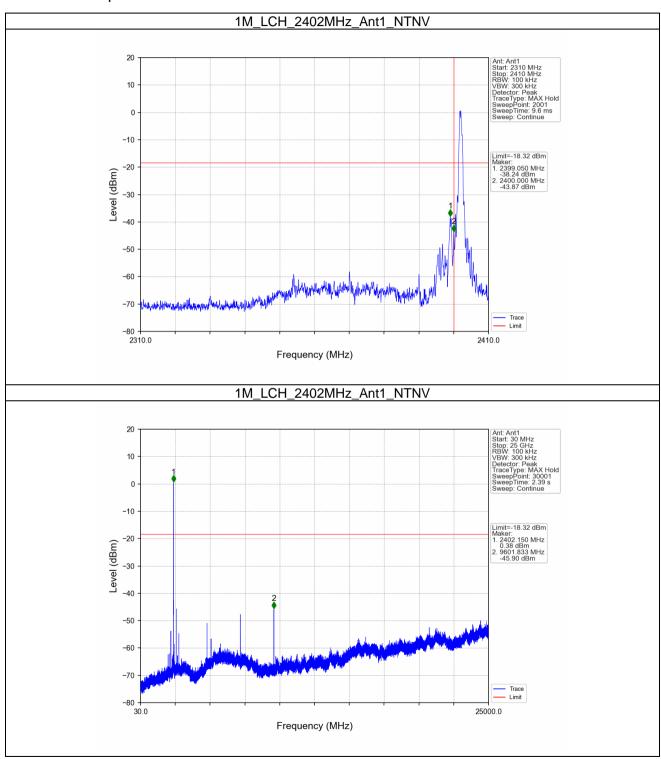


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5.2 CSE and Band Edges

5.2.2 Test Graph





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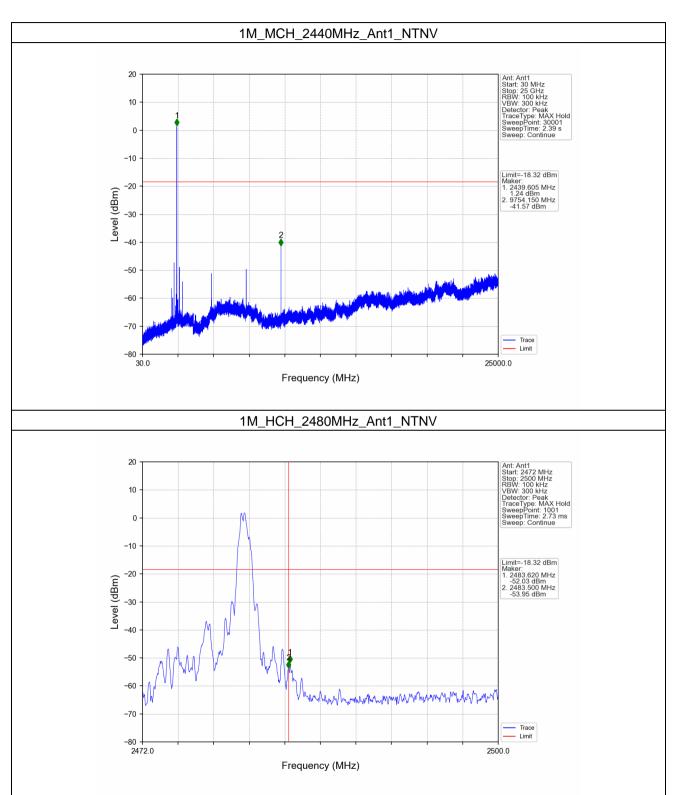
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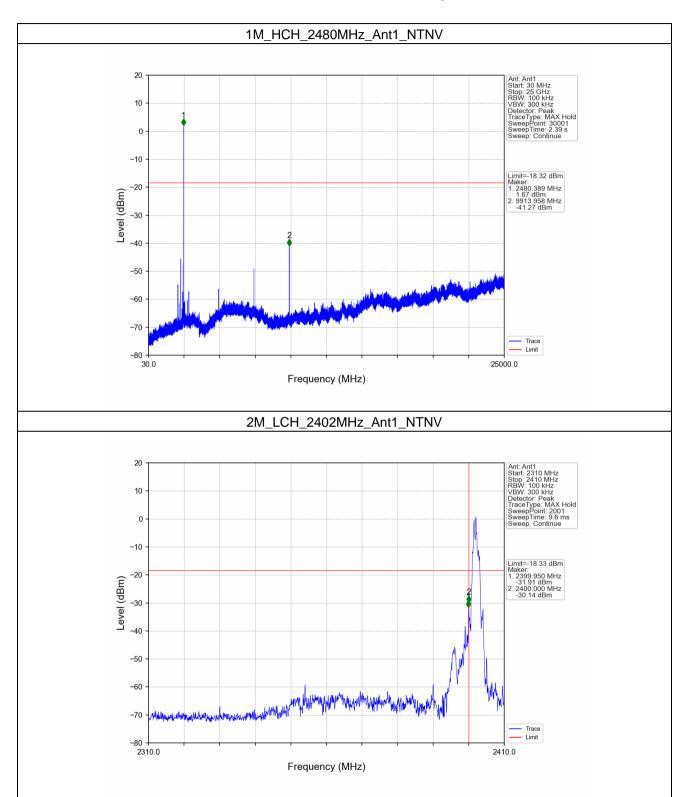
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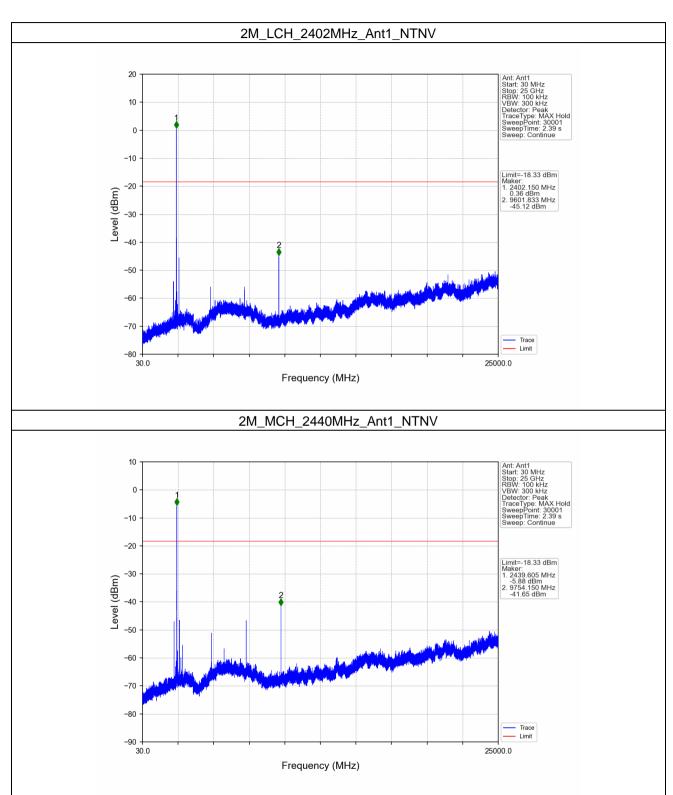
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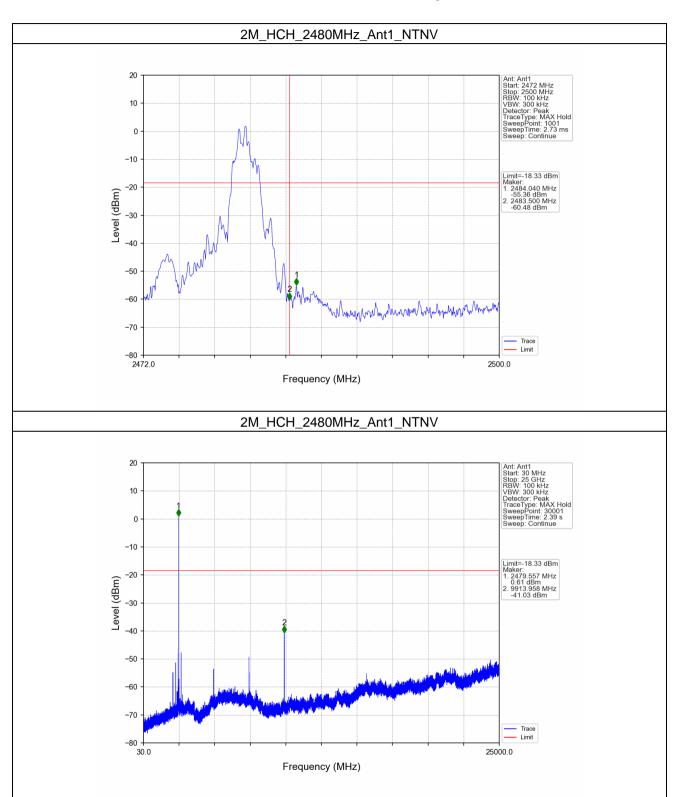
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Page: 66 of 66



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