

Report No.: SZCR210402046802 Page: 1 of 48

TEST REPORT

Application No.:	SZCR2104020468AT
Applicant:	Theragun, Inc.
Address of Applicant:	6100 Wilshire Blvd. Suite 200 Los, Angeles, California 90048-5107 United States
Manufacturer:	Theragun, Inc.
Address of Manufacturer:	6100 Wilshire Blvd. Suite 200 Los Angeles, CA 90048-5107, USA
Factory:	1. Shenzhen Xiang Zhida Technology Co., Ltd
	2. Healthcare Technology International Ltd.
	Suzhou Wintech Tools Manufacturing Co., Ltd.
Address of Factory:	 Room 101, 201, 301, 401, Building C, No.121 of Lianxin Road, Wulian Community, Longgang Street, Longgang District, Shenzhen, P.R.C
	 Yin Yang Industrial Zone Zhang Mutou Dongguan City Guangdong Province China
	No.286 Caofeng Road, Hefeng Industrial Area, Xukou Town,Wuzhong District, 215156, Suzhou, Jiangsu, China.
Equipment Under Test (EUT):
EUT Name:	Hand Held Massager
Model No.:	Theragun Elite
Trade Mark:	Theragun
FCC ID:	2AU6TELITE-03
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2021-04-10
Date of Test:	2021-04-15 to 2021-04-29
Date of Issue:	2021-04-30
Test Result:	Pass*

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

Keny. Ku

Keny Xu EMC Laboratory Manager



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Page: 2 of 48

Revision Record					
Version Chapter Date Modifier Rema					
01	01 2021-04-30			Original	

Authorized for issue by:		
	(eo-li	
	Leo Li/Project Engineer	-
	Erric Fu	
	Eric Fu/Reviewer	-



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Page:

3 of 48

Test Summary 2

Radio Spectrum Technical Requirement						
Item	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 Peak Output Power		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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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Page: 4 of 48

3 Contents

		Pa	ge
1	COV	'ER PAGE	. 1
2	TES [.]	T SUMMARY	3
~			
3	CON	ITENTS	. 4
4	GEN	IERAL INFORMATION	. 6
	4.1	DETAILS OF E.U.T.	
	4.2	DESCRIPTION OF SUPPORT UNITS	. 6
	4.3	MEASUREMENT UNCERTAINTY	. 6
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	Abnormalities from Standard Conditions	. 7
5	EQU	IPMENT LIST	. 8
6	RAD	NO SPECTRUM TECHNICAL REQUIREMENT	.11
	6.1	ANTENNA REQUIREMENT	11
	6.1.1		
	6.1.2		
7		IO SPECTRUM MATTER TEST RESULTS	
1			
	7.1	CONDUCTED PEAK OUTPUT POWER	
	7.1.1		
	7.1.2		
	7.1.3	1 0	
	7.1.4		
	7.2		
	7.2.1 7.2.2		
	7.2.2		
	7.2.3		
	7.3	Power Spectrum Density	
	7.3.1		
	-	2 Test Mode Description	
	7.3.3		
	7.3.4		
	7.4	CONDUCTED BAND EDGES MEASUREMENT	
	7.4.1		
	7.4.2		
	7.4.3		
	7.4.4	4 Measurement Procedure and Data	.15
	7.5	CONDUCTED SPURIOUS EMISSIONS	
	7.5.1		
	7.5.2		
	7.5.3	3 Test Setup Diagram	.16



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Report No.: SZCR210402046802

Page: 5 of 48

	7.5.4	Measurement Procedure and Data	
7.0	6 R	ADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
	7.6.1	E.U.T. Operation	
	7.6.2	Test Mode Description	
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7.	7 R	ADIATED SPURIOUS EMISSIONS BELOW 1GHZ	
	7.7.1	E.U.T. Operation	
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	
7.8	8 R	ADIATED SPURIOUS EMISSIONS ABOVE 1GHZ	
	7.8.1	E.U.T. Operation	
	7.8.2	Test Mode Description	
	7.8.3	Test Setup Diagram	
	7.8.4	Measurement Procedure and Data	
8	TEST	СЕТИР РНОТО	35
9	EUT C	ONSTRUCTIONAL DETAILS (EUT PHOTOS)	35
10	APPE	IDIX	



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Page: 6 of 48

4 General Information

4.1 Details of E.U.T.

Power supply:	DC 20V from adapter input AC 120V/60Hz
	Adapter Model: A1046SAR
	AC Input: 100-240V~, 1.5A, 50/60Hz
	DC Output: 20.0V 2.25A 45.0W
	Lithium Ion Battery: 10.8V 2500mAh rechargeable battery which charged by adapter
Cable(s):	DC cable: 100cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Data Rate:	1Mb/s
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	-3dBi
Remark:	The BT function is disable when the battery of the EUT is charging.

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

Remark:

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

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

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Page: 7 of 48

4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC – Designation Number: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: SZCR210402046802

Page: 8 of 48

5 Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room SAEMC		MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	

Minimum 6dB Bandwidth							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		

Power Spectrum Density							
Equipment Manufacturer		Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		



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Report No.: SZCR210402046802

Page: 9 of 48

Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Shielding Room	SAEMC MSR733		SEM001-09	2019-06-13	2022-06-12		
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07		
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09		
Attenuator	Huber+Suhner	6620_SMA-50- 1 SEM021-09		2021-04-08	2022-04-07		

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25		
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31		
Horn Antenna	Schwarzbeck HF906 SHEM009-2 2020-07-27		2022-07-26				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021-03-24	2022-03-23		

Radiated Spurious Emissions Below 1GHz							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	ETS-LINDGREN	ETS-LINDGREN N/A S		2020-07-19	2023-07-18		
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01		
BiConiLog Antenna	ETS-LINDGREN	ETS-LINDGREN 3142C SEM		2019-05-24	2022-05-23		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09		



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Report No.: SZCR210402046802

Page:

10 of 48

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25		
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31		
Horn Antenna	Schwarzbeck	HF906	SHEM009-2	2020-07-27	2022-07-26		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09		

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14	
Barometer	Changchun		SEM002-01	2021-03-30	2022-03-29	



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Page: 11 of 48

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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 -3dBi.

Antenna location: Refer to internal photo.



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Page: 12 of 48

7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

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

7.1.1 E.U.T. Operation

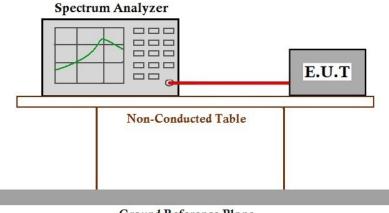
Operating Environment:

Temperature:	25.9 °C	Humidity:	32.9 % RH	Atmospheric Pressure:	1010	mbar	

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details





Report No.: SZCR210402046802

Page:

13 of 48

7.2 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

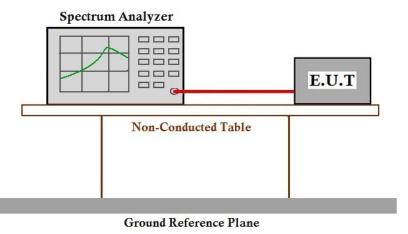
7.2.1 E.U.T. Operation

Operating Enviro	onment:				
Temperature:	25.9 °C	Humidity:	32.9 % RH	Atmospheric Pressure: 1010 mba	ar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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Report No.: SZCR210402046802

Page:

14 of 48

7.3 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

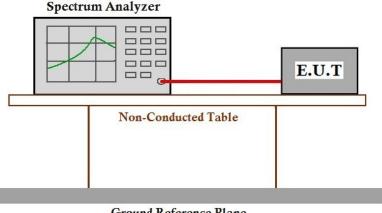
7.3.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	25.9 °C	Humidity:	32.9 % RH	Atmospheric Pressure: 1010 mba	r

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR210402046802

Page:

15 of 48

7.4 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).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.9 °C

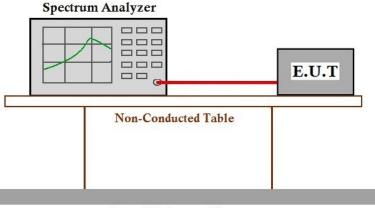
Humidity: 32.9 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 TCSUN				
Pre-scan / Final test	Mode Code	Description		
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.		

7.4.3 Test Setup Diagram

7.4.2 Test Mode Description



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details





Report No.: SZCR210402046802

Page:

16 of 48

7.5 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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:	25.9 °	С
remperature.	20.0	0

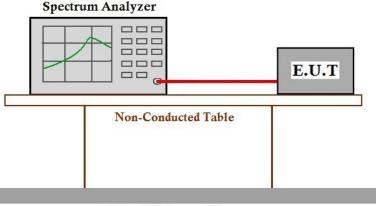
Humidity: 32.9 % RH

Atmospheric Pressure: 1010 mbar

7.5.2 Test W	7.5.2 Test Mode Description			
Pre-scan / Final test	Mode Code	Description		
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.		

7.5.0 Test Made Description

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details





Report No.: SZCR210402046802

Page:

17 of 48

7.6 Radiated Emissions which fall in the restricted bands

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.10.5
Measurement Distance:	3m

Limit:

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

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

7.6.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.5 °C	Humidity:	56.3 % RH	Atmospheric Pressure:	1010	mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.



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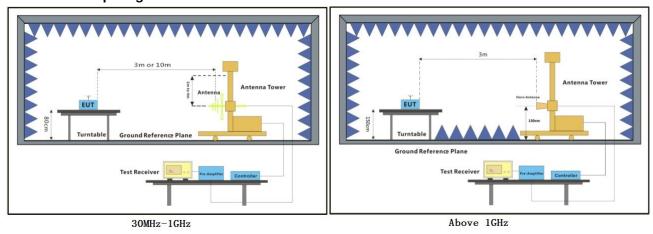
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Report No.: SZCR210402046802

Page: 18 of 48

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

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

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

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

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

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

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

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

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

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

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

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

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



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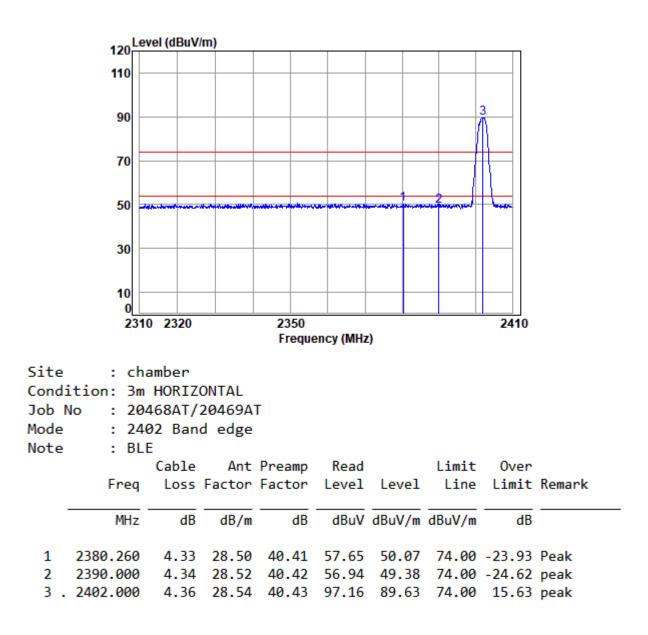
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Report No.: SZCR210402046802

Page: 19 of 48

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low





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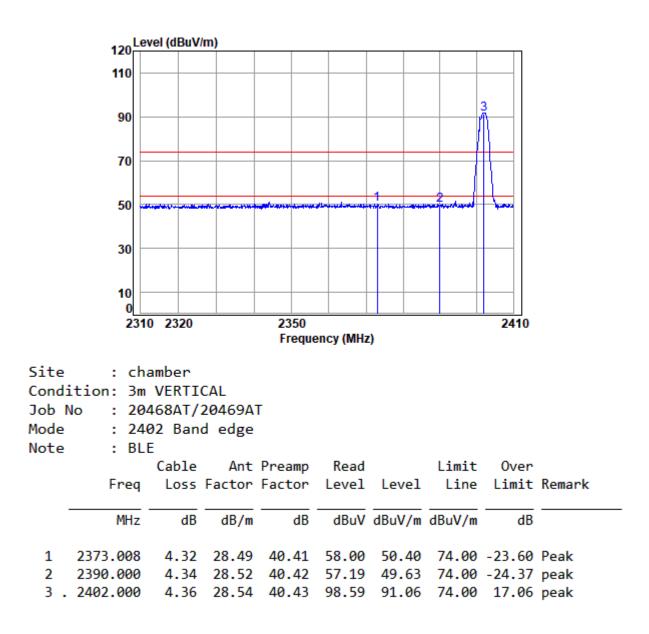
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Report No.: SZCR210402046802

Page: 20 of 48

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low





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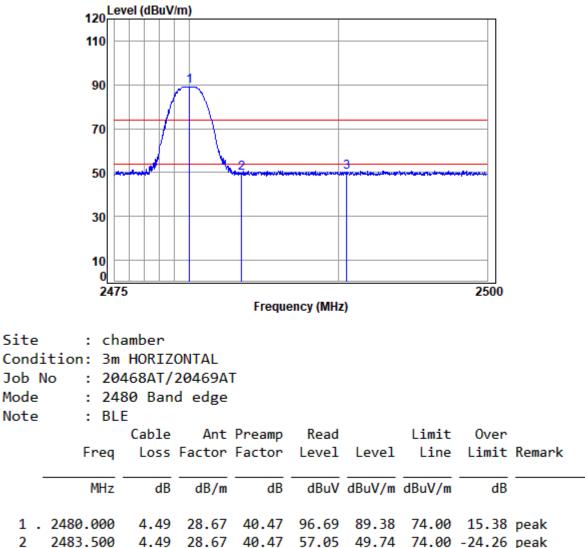
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Report No.: SZCR210402046802

Page: 21 of 48

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



2 2483.500 4.49 28.67 40.47 57.69 49.74 74.00 -24.26 peak 3 2490.545 4.51 28.68 40.47 57.69 50.41 74.00 -23.59 Peak



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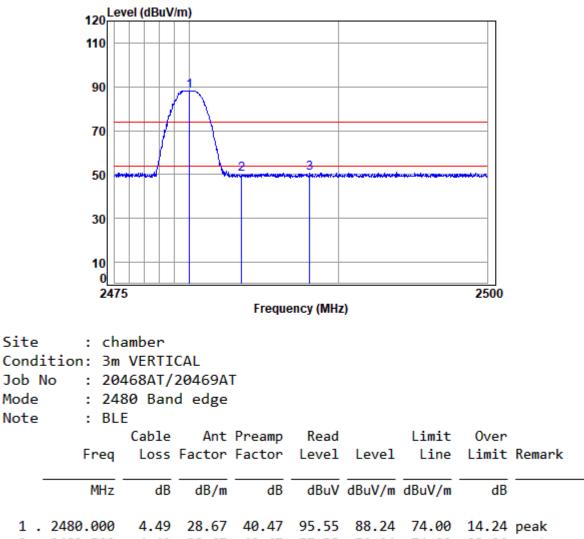
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Report No.: SZCR210402046802

Page: 22 of 48

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



2 2483.500 4.49 28.67 40.47 57.35 50.04 74.00 -23.96 peak 3 2488.069 4.50 28.68 40.47 57.73 50.44 74.00 -23.56 Peak



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Report No.: SZCR210402046802

Page:

23 of 48

7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5
Measurement Distance:	3m

Limit:

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

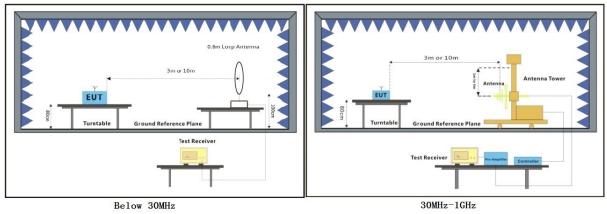
7.7.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	23.6 °C	Humidity:	59.2 % RH	Atmospheric Pressure: 1010 mba	ar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.7.3 Test Setup Diagram





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Report No.: SZCR210402046802

Page:

24 of 48

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 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

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

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

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

Remark:

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

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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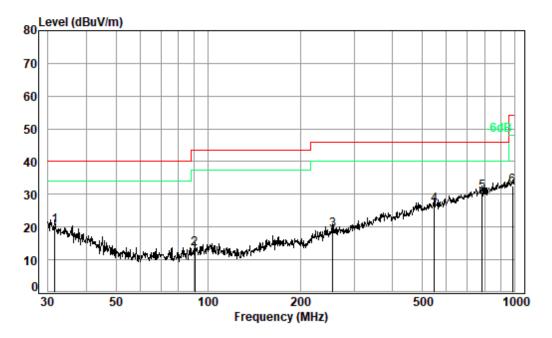


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Report No.: SZCR210402046802

25 of 48 Page:

Test Mode: 01; Polarity: Horizontal



Condition: 3m HORIZONTAL Job No. : 20468AT Test Mode: 01

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 4	254.73 547.10	1.29 1.68 2.60	13.21 18.15 25.07	27.96	26.35 26.21 27.10	13.23 19.06 26.81	43.50 46.00 46.00	-30.27 -26.94 -19.19	QP QP QP
5 pp 6				27.76 26.73					-



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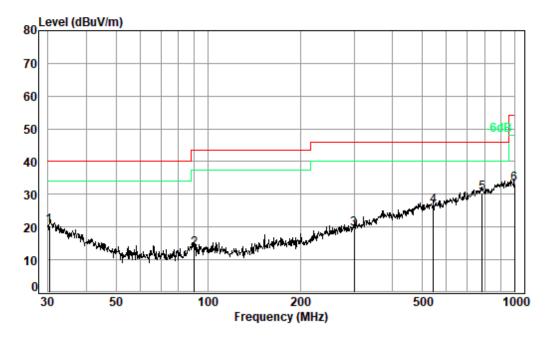
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Report No.: SZCR210402046802

Page:

26 of 48

Test Mode: 01; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 20468AT Test Mode: 01

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1				27.73					-
2	90.22	1.30	13.14	27.62	26.58	13.40	43.50	-30.10	QP
3	299.32	2.00	19.05	26.87	25.36	19.54	46.00	-26.46	QP
4	543.27	2.59	25.03	27.95	26.66	26.33	46.00	-19.67	QP
5 pp	785.09	3.24	28.00	27.76	26.83	30.31	46.00	-15.69	QP
6	1000.00	3.60	29.80	26.66	26.31	33.05	54.00	-20.95	QP



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Report No.: SZCR210402046802

Page:

27 of 48

7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.6
Measurement Distance:	3m

Limit:

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

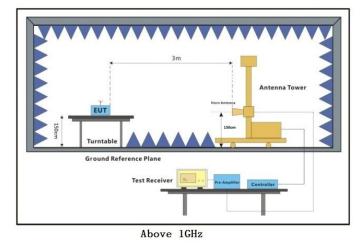
7.8.1 E.U.T. Operation

Operating Enviror	nment:					
Temperature:	23.5 °C	Humidity:	56.3 % RH	Atmospheric Pressure:	1010	mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.

7.8.3 Test Setup Diagram







Report No.: SZCR210402046802

Page: 28 of 48

7.8.4 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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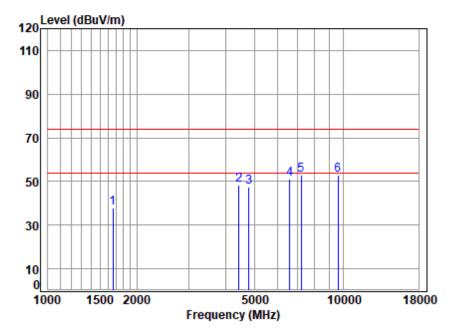
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Report No.: SZCR210402046802

Page: 29 of 48

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



	ition: 3m No : 204 : 240	468AT\; 02 TX 9 E	20469A ⁻ SE		Read		Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
			,			,	,			
1	1663.137	3.40	26.52	40.04	47.84	37.72	74.00	-36.28	peak	
2	4443.453	6.71	33,50	41.82	49.83	48,22	74.00	-25.78	peak	
-	4004 000	7 40					74.00			





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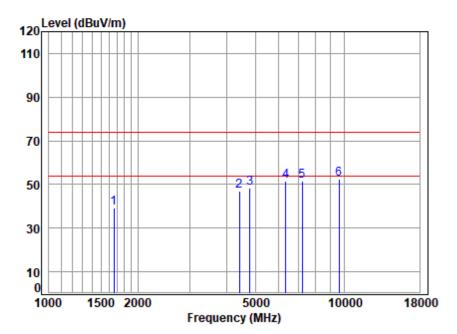
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Report No.: SZCR210402046802

Page: 30 of 48

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site	:	cham	ber				
Conditio	n:	3m V	ERTI	CAL			
Job No	:	2046	8AT\	20469A	Т		
Mode	:	2402	ТΧ	SE			
Note	:	BLE					
		C	able	Ant	Preamp	Read	
	Fr	eq	Loss	Factor	Factor	Level	Lev

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	3.40	26.50	40.04	49.57	39.43	74.00	-34.57	peak
2	4417.841	6.68	33.46	41.80	48.51	46.85	74.00	-27.15	peak
3	4804.000	7.10	33.97	42.14	49.29	48.22	74.00	-25.78	peak
4	6340.436	8.27	35.44	42.15	50.15	51.71	74.00	-22.29	peak
5	7206.000	8.74	36.07	41.50	48.20	51.51	74.00	-22.49	peak
6	9608.000	10.81	37.67	37.76	41.91	52.63	74.00	-21.37	peak



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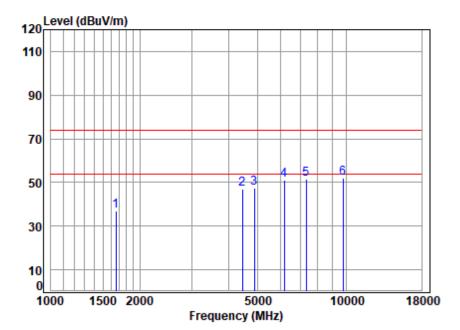
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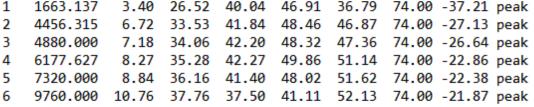
Report No.: SZCR210402046802

Page: 31 of 48

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site	:	cha	amber							
Condi	Condition: 3m HORIZONTAL									
Job N	lob No : 20468AT\20469AT									
Mode	:	244	10 TX	SE						
Note	:	BLE	1							
			Cable	Ant	Preamp	Read		Limit	0ver	
	Fi	req	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.3	137	3.40	26.52	40.04	46.91	36.79	74.00	-37.21	peak





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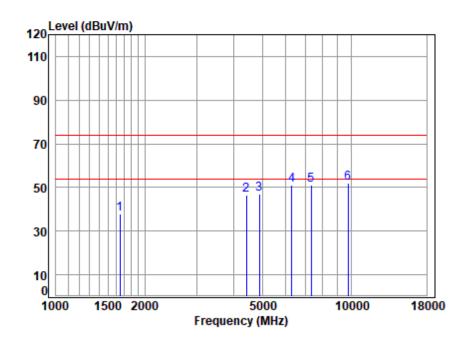
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Report No.: SZCR210402046802

32 of 48 Page:

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site :	chamber
Condition:	3m VERTICAL
Job No :	20468AT\20469AT
Mode :	2440 TX SE
Note :	BLE
	Cable Ant Preamn

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.39	26.46	40.03	48.09	37.91	74.00	-36.09	peak
2	4417.841	6.68	33.46	41.80	48.16	46.50	74.00	-27.50	peak
3	4880.000	7.18	34.06	42.20	47.96	47.00	74.00	-27.00	peak
4	6303.890	8.27	35.41	42.18	49.51	51.01	74.00	-22.99	peak
5	7320.000	8.84	36.16	41.40	47.37	50.97	74.00	-23.03	peak
6	9760.000	10.76	37.76	37.50	41.19	52.21	74.00	-21.79	peak
									-



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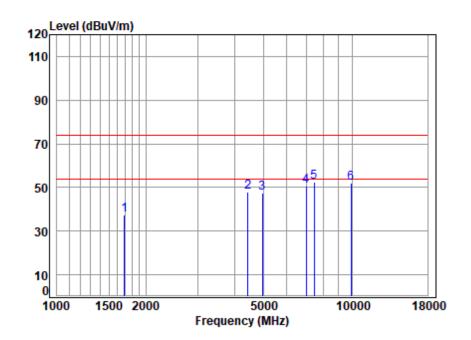
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Report No.: SZCR210402046802

Page: 33 of 48

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site			amber					
Condi	tion:	Зm	HORIZ	ONTAL				
Job N	o :	204	468AT\	20469A	Т			
Mode	:	24	80 TX	SE				
Note	:	BLI	E					
			Cable	Ant	Preamp	Read		Limit
	Fi	req	Loss	Factor	Factor	Level	Level	Line
-								
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m

1	1692.231	3.42	26.64	40.06	47.19	37.19	74.00 -36.81 peak
2	4443.453	6.71	33.50	41.82	49.49	47.88	74.00 -26.12 peak
3	4960.000	7.26	34.15	42.27	48.20	47.34	74.00 -26.66 peak
4	6995.172	8.54	35.90	41.70	48.04	50.78	74.00 -23.22 peak
5	7440.000	8.96	36.25	41.29	48.57	52.49	74.00 -21.51 peak
6	9920.000	10.71	37.85	37.23	40.79	52.12	74.00 -21.88 peak



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Over

dB

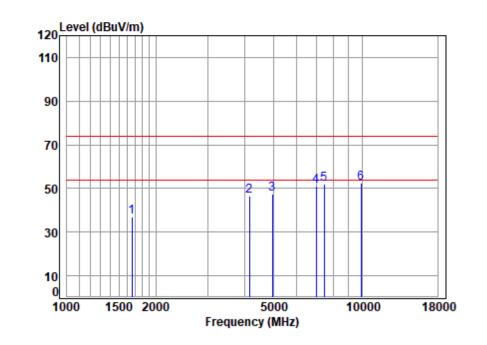
Limit Remark



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Page: 34 of 48

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:High



Site :		chamber
Condition:		3m VERTICAL
Job No :		20468AT\20469AT
Mode :	:	2480 TX SE
Note :		BLE
		C 1 1

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	3.40	26.52	40.04	47.04	36.92	74.00	-37.08	peak
2	4157.664	6.44	33.00	41.56	48.86	46.74	74.00	-27.26	peak
3	4960.000	7.26	34.15	42.27	48.36	47.50	74.00	-26.50	peak
4	6974.982	8.53	35.89	41.72	48.29	50.99	74.00	-23.01	peak
5	7440.000	8.96	36.25	41.29	48.12	52.04	74.00	-21.96	peak
6	9920.000	10.71	37.85	37.23	40.99	52.32	74.00	-21.68	peak
									-



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Page: 35 of 48

Test Setup Photo 8

Refer to setup photos for SZCR2104020468AT

EUT Constructional Details (EUT Photos) 9

Refer to external and internal photos for SZCR2104020468AT



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10 Appendix

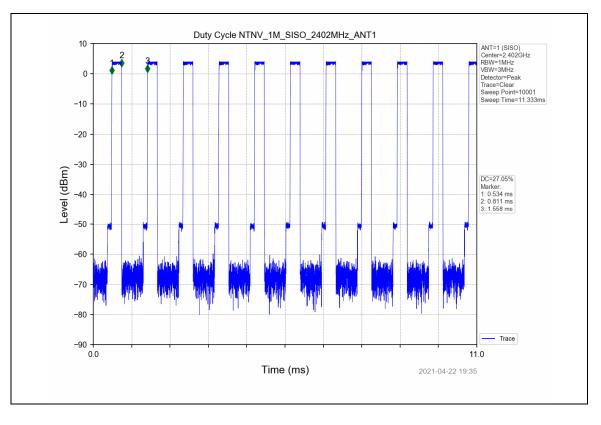
Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency (MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2402	SISO	1	0.277	1.024	27.05	5.68
1M	2440	SISO	1	0.277	1.024	27.05	5.68
	2480	SISO	1	0.277	1.023	27.08	5.67

1.2 Test Graph





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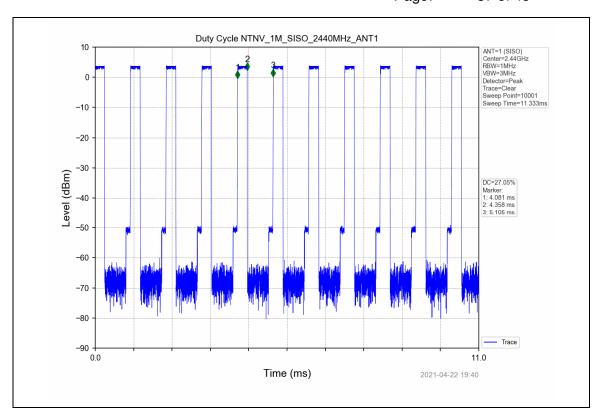
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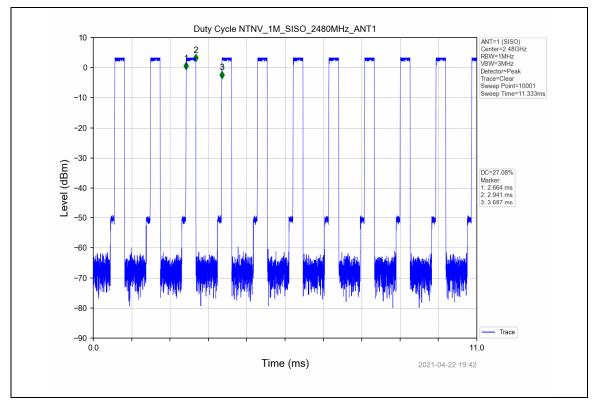
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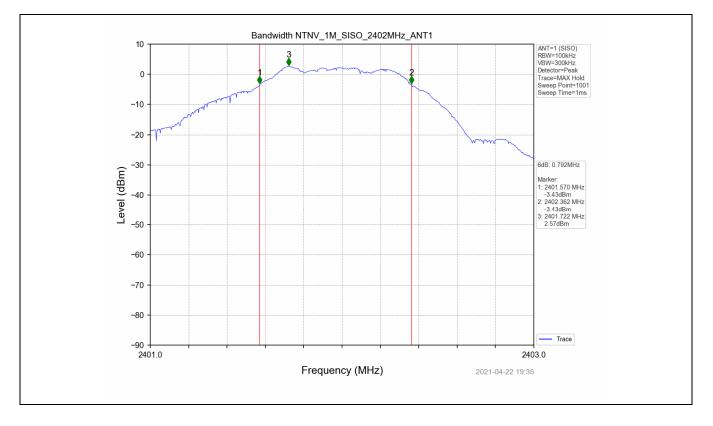
2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	6dB Bandwidth	Verdict
				Test Result (MHz)	Verdict
1M	2402	SISO	1	0.792	PASS
	2440	SISO	1	0.795	PASS
	2480	SISO	1	0.806	PASS

Test Mede	Frequency (MHz) TX T	TV Turne	ANT No.	99% Occupied Bandwidth		
Test Mode		тхтуре		Test Result (MHz)		
1M	2402	SISO	1	1.187	Only for Report Use	
	2440	SISO	1	1.176	Only for Report Use	
	2480	SISO	1	1.140	Only for Report Use	

2.2 Test Graph - 6dB Bandwidth

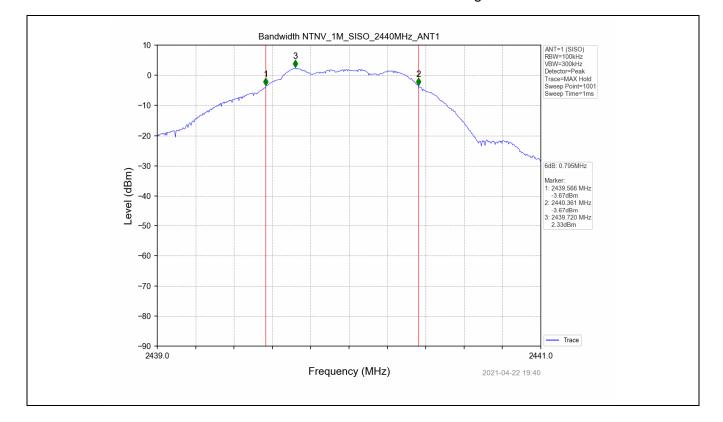


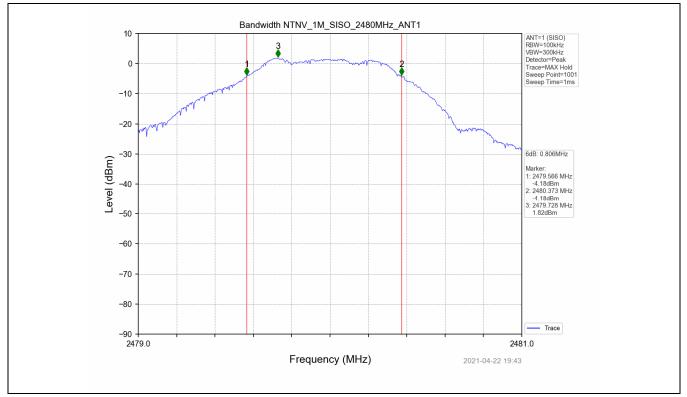




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Page: 39 of 48







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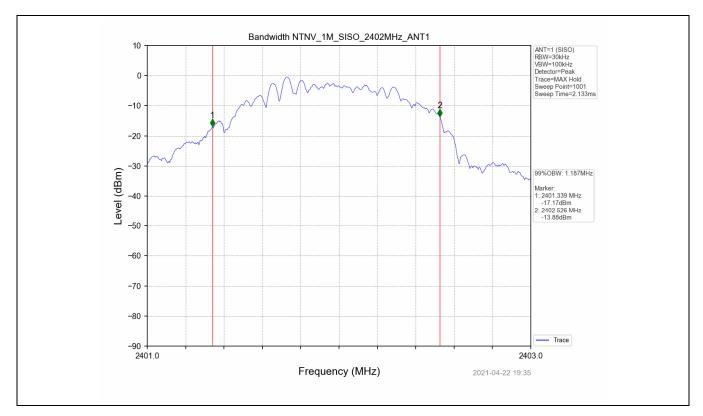
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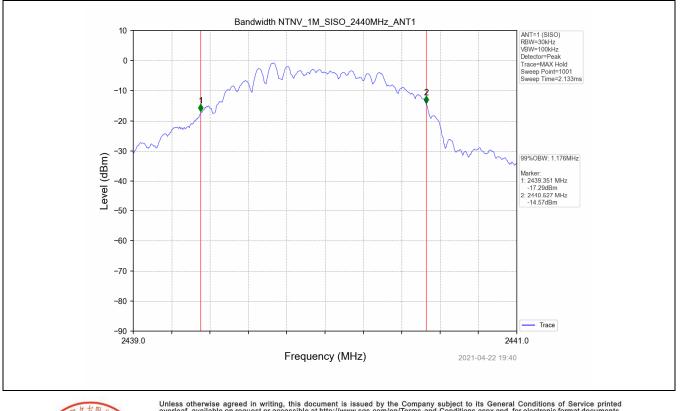


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2.3 Test Graph - 99% Occupied Bandwidth





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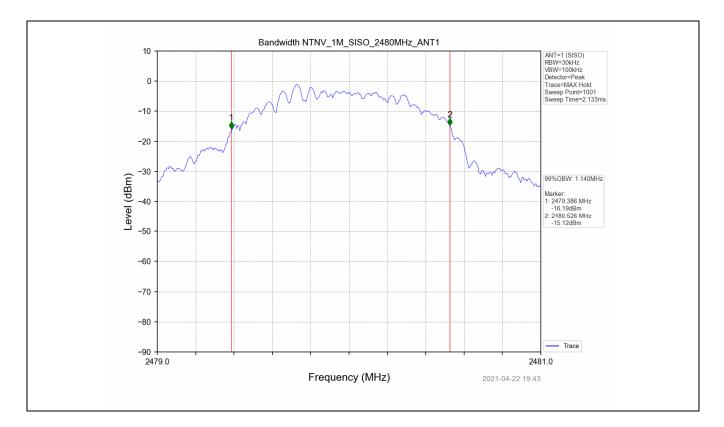
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Page:

41 of 48



3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	4.12	30	PASS
1M	2440	SISO	3.88	30	PASS
	2480	SISO	3.39	30	PASS



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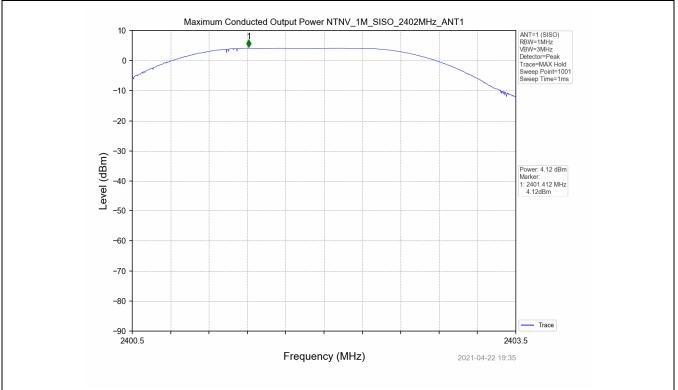
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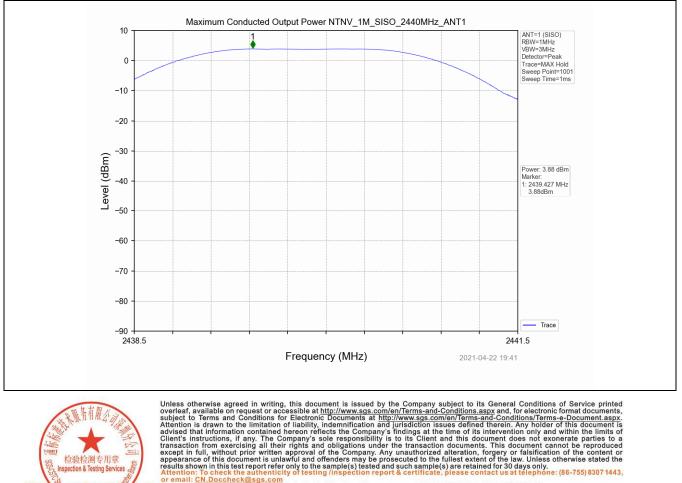


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Page:

42 of 48





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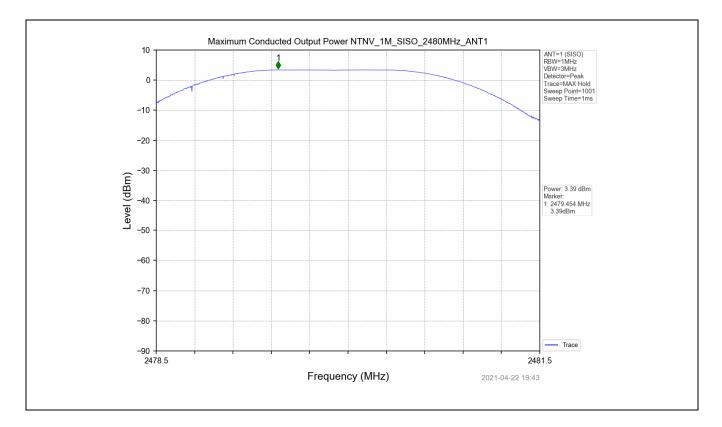
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Page:

43 of 48



4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-12.56	≤8	PASS
1M	2440	SISO	-12.95	≤8	PASS
	2480	SISO	-13.26	≤8	PASS



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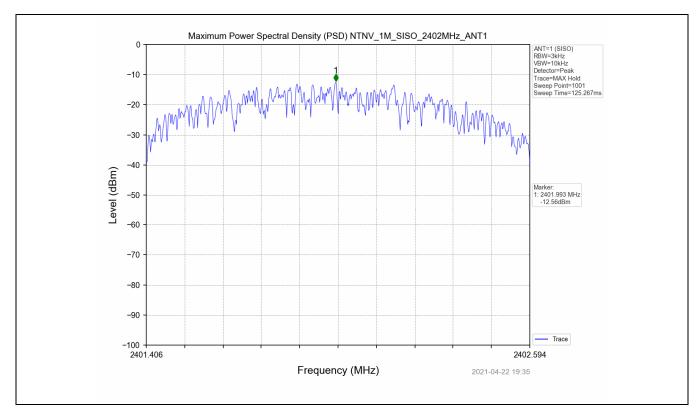
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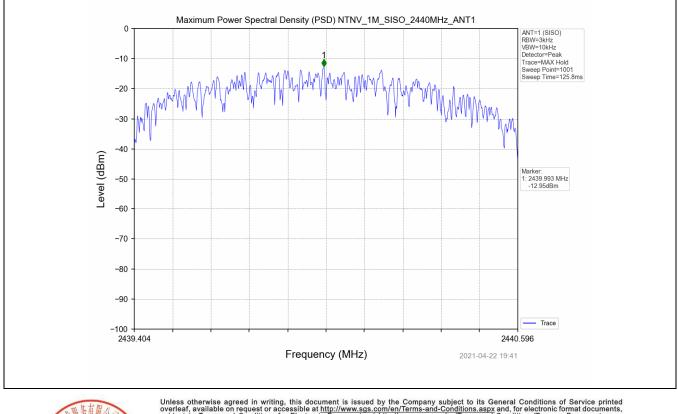


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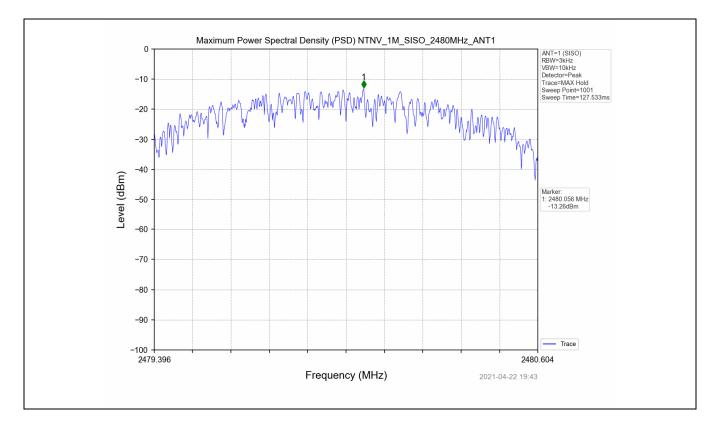
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Page: 45 of 48



5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-17.43	PASS
1M	2440	SISO	1	Refer to test graph	-17.43	PASS
	2480	SISO	1	Refer to test graph	-17.43	PASS



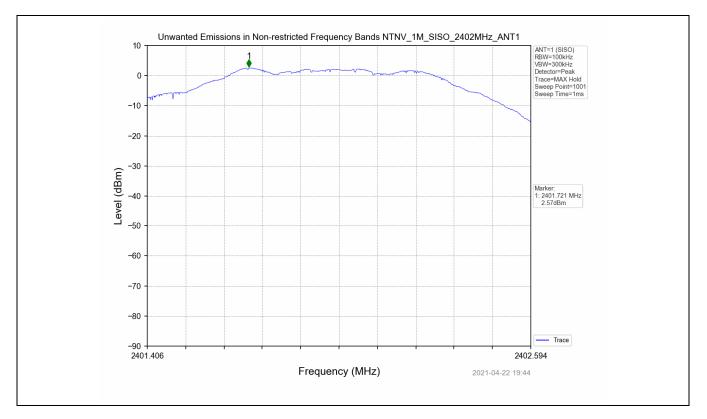
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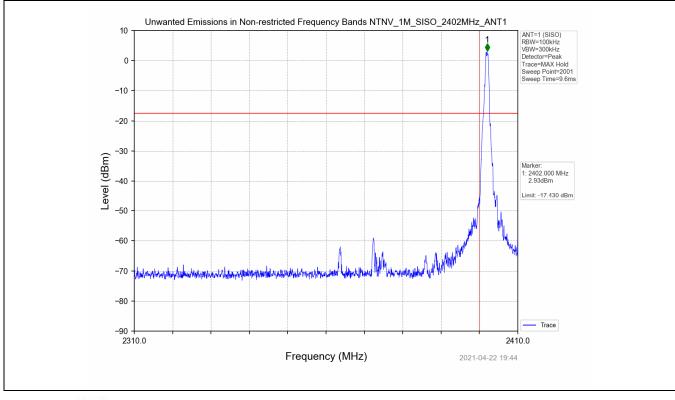


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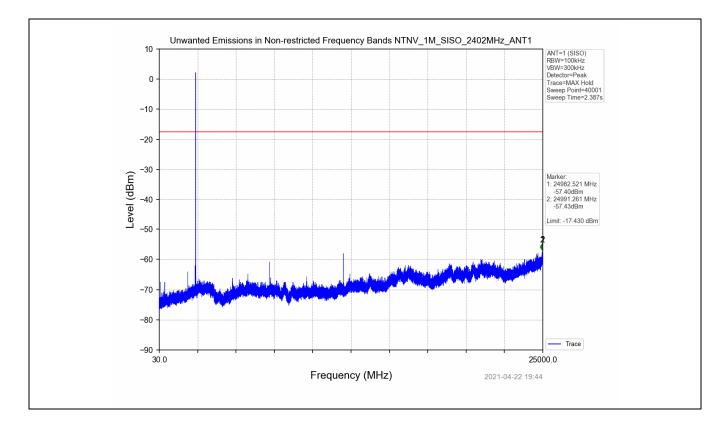
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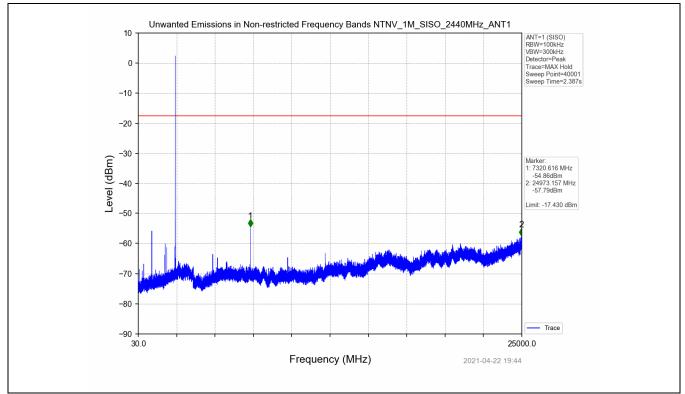
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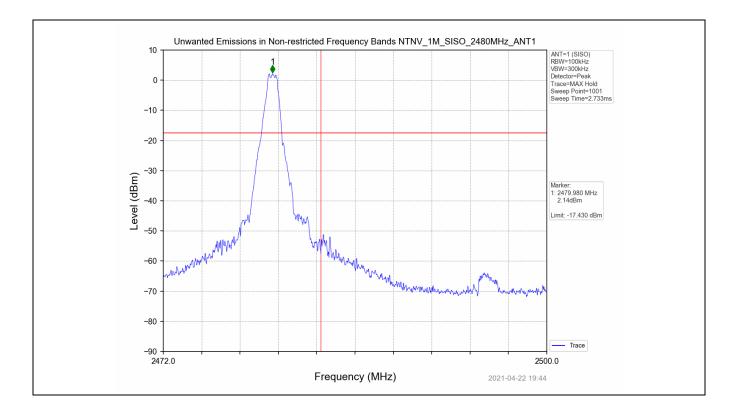
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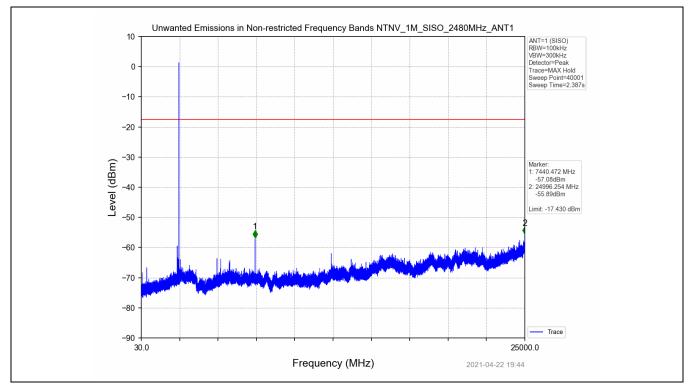
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Report No.: SZCR210402046802

Page: 48 of 48





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