

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 1 of 59

# TEST REPORT

**Application No.:** SZCR2310003464AT Applicant: BrainPortfolio Inc.

**Address of Applicant:** 1826 Kramer Ln. Suite A/B Austin, TX 78758 Texas United States

Manufacturer: BrainPortfolio Inc.

1826 Kramer Ln. Suite A/B Austin, TX 78758 Texas United States Address of Manufacturer:

**Equipment Under Test (EUT):** 

**EUT Name:** Intelligent Bionic Leg Model No.: BR4B, BR4C

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

actually tested and which were electrically identical.

FCC ID: 2BDWC-BR4BC

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

**Date of Receipt:** 2023-10-30

Date of Test: 2023-11-01 to 2023-11-14

2023-11-17 Date of Issue:

Pass\* **Test Result:** 

Keny Xu **EMC Laboratory Manager** 

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 2 of 59

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2023-11-17		Original			

Authorized for issue by:		
	Bric Cherr	
	Bill Chen/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	-



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 3 of 59

#### **Test Summary** 2

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

Radio Spectrum Matter Part					
Item	Standard	Method	Requirement	Result	
Conducted 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	

#### **Declaration of EUT Family Grouping:**

Model No.: BR4B, BR4C

Only the model BR4C was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on surface cosmetics.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 4 of 59

#### 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	6
	4.2 Description of Support Units	
	4.3 Measurement Uncertainty	
	4.4 Test Location	
	4.5 Test Facility	8
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	8
5	5 Equipment List	g
6	·	
	6.1 Antenna Requirement	
	6.1.1 Test Requirement:	
	6.1.2 Conclusion	12
7	7 Radio Spectrum Matter Test Results	13
	7.1 Conducted Peak Output Power	13
	7.1.1 E.U.T. Operation	
	7.1.2 Test Setup Diagram	
	7.1.3 Measurement Procedure and Data	
	7.2 Minimum 6dB Bandwidth	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.3 Test Setup Diagram	
	7.2.4 Measurement Procedure and Data	
	7.3 Power Spectrum Density	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Conducted Band Edges Measurement	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	
	7.5 Conducted Spurious Emissions	
	7.5.1 E.U.T. Operation	
	7.5.2 Test Mode Description	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 5 of 59

	7.5.3	Test Setup Diagram	19
	7.5.4	Measurement Procedure and Data	19
7	.6 F	Radiated Emissions which fall in the restricted bands	
	7.6.1	E.U.T. Operation	20
	7.6.2	Test Mode Description	20
	7.6.3	Test Setup Diagram	
	7.6.4	Measurement Procedure and Data	
7	.7 F	Radiated Spurious Emissions Below 1GHz	27
		E.U.T. Operation	
	7.7.2	Test Setup Diagram	27
	7.7.3	Measurement Procedure and Data	
7	.8 F	Radiated Spurious Emissions Above 1GHz	32
	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 S	Setup Photo	40
9	EUT C	Constructional Details (EUT Photos)	40
10	Apper	ndix	4



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 6 of 59

### **General Information**

#### Details of E.U.T. 4.1

Power supply:	Model No.;UES18LCP4-050200SPA
	Input:AC 100-240V 50/60Hz 500mA
	Output:DC 5.0V 2.0A 10.0W
	Rechargable
	Lithium Ion Battery: DC 3.7V 3000mAh 11.1Wh rechargeable battery which charged by Tye-C port
Cable(s):	DC cable:50cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 LE
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1Mbps
Antenna Type:	Chip Antenna
Antenna Gain:	2.2dBi

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.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 7 of 59

#### 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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)

#### Remark:

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 8 of 59

#### 4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### A2LA (Certificate No. 3816.01)

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

#### VCCI (Member No. 1937)

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

#### • FCC -Designation Number: CN1336

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

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

#### Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### **Abnormalities from Standard Conditions**

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 9 of 59

#### 5 **Equipment List**

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Power Spectrum Densit	у				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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Report No.: SZCR231000346402

Page: 10 of 59

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

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



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Report No.: SZCR231000346402

Page: 11 of 59

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 12 of 59

#### Radio Spectrum Technical Requirement 6

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

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

#### 6.1.2 Conclusion

#### Standard Requirement:

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

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. **EUT Antenna:** 

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.2 dBi.

Antenna location: Refer to internal photo.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 13 of 59

#### **Radio Spectrum Matter Test Results** 7

### 7.1 Conducted Peak Output Power

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

#### Limit:

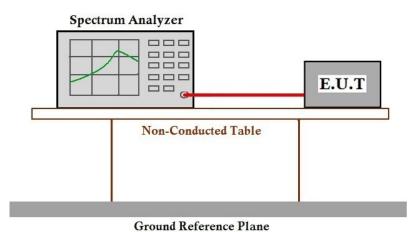
Frequency range(MHz)  Output power of the intentional radiator(watt)			
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation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

#### 7.1.1 E.U.T. Operation

Operating Environment:

Humidity: 43.9 % RH Temperature: 24.6 °C Atmospheric Pressure: 1000 mbar

#### 7.1.2 Test Setup Diagram



#### 7.1.3 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 14 of 59

#### 7.2 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

#### 7.2.1 E.U.T. Operation

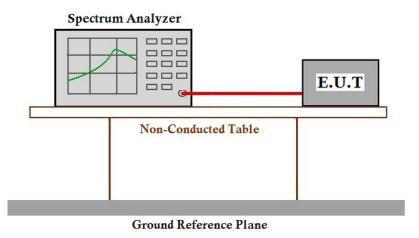
Operating Environment:

Temperature: 24.6 °C Humidity: 43.9 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR231000346402

Page: 15 of 59

### 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

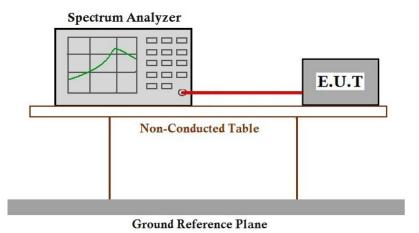
Operating Environment:

Temperature: 24.6 °C Humidity: 43.9 % RH Atmospheric Pressure: 1000 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 16 of 59

### 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: 24.6 °C Humidity: 43.9 % RH Atmospheric Pressure: 1000 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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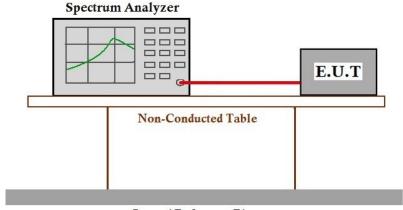


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 17 of 59

#### 7.4.3 Test Setup Diagram



Ground Reference Plane

#### 7.4.4 Measurement Procedure and Data

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> Page: 18 of 59

### 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: 24.6 °C Humidity: 43.9 % RH Atmospheric Pressure: 1000 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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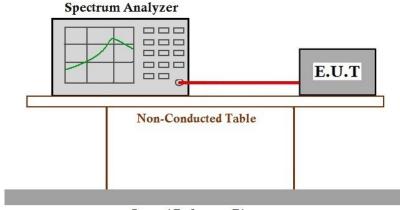


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 19 of 59

#### 7.5.3 Test Setup Diagram



Ground Reference Plane

#### 7.5.4 Measurement Procedure and Data

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 20 of 59

#### 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 Environment:

Temperature: 23.2 °C Atmospheric Pressure: 1000 mbar Humidity: 52.6 % RH

#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.



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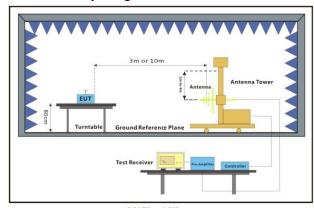


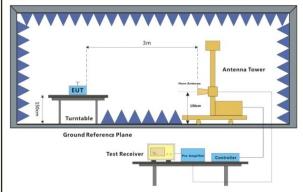
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 21 of 59

#### 7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 22 of 59

#### 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 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
- c. The EUT was set 3 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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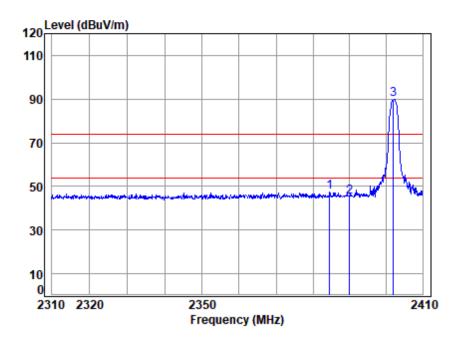


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 23 of 59

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03464AT

Mode : 2402 Band edge

Note : BLF 1M

oce	. DLL	TIN								
		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	2384.50	5.07	29.10	37.45	50.59	47.31	74.00	-26.69	peak	
2	2390.00	5.08	29.10	37.44	48.59	45.33	74.00	-28.67	peak	
3	2402.00	5.09	29.09	37.41	92.99	89.76	74.00	15.76	peak	



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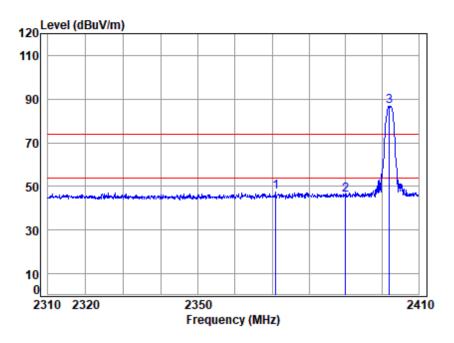


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 24 of 59

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03464AT

: 2402 Band edge Mode

: BLE 1M Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.00	5.06	29.10	37.48	50.66	47.34	74.00	-26.66	peak
2	2390.00	5.08	29.10	37.44	49.30	46.04	74.00	-27.96	peak
3	2402.00	5.09	29.09	37.41	89.82	86.59	74.00	12.59	peak



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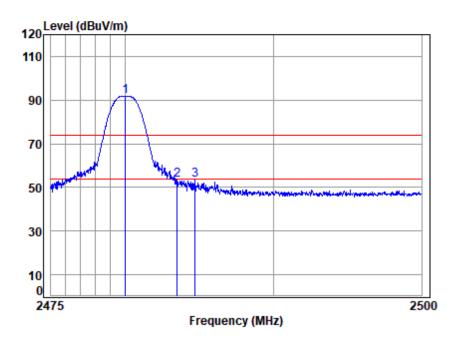


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 25 of 59

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03464AT

Mode : 2480 Band edge

Note : BLE 1M

1000		<b>-</b> 111								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
1	2480.00	5.16	28.90	37.22	94.83	91.67	74.00	17.67	peak	
2	2483.50	5.16	28.90	37.22	56.47	53.31	74.00	-20.69	peak	
3	2484.70	5.16	28.90	37.21	56.57	53.42	74.00	-20.58	neak	



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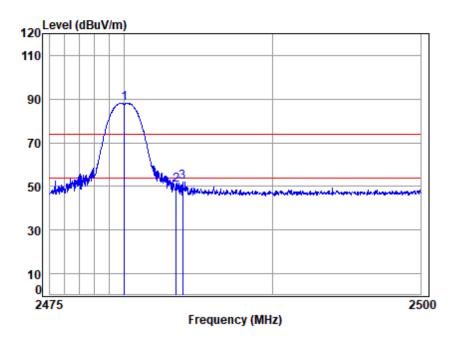


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 26 of 59

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03464AT

: 2480 Band edge Mode

Note : BLF 1M

IO CC	. DLL	T1.1								
		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	2480.00	5.16	28.90	37.22	91.17	88.01	74.00	14.01	peak	
2	2483.50	5.16	28.90	37.22	54.01	50.85	74.00	-23.15	peak	
3	2483.92	5.16	28.90	37.22	55.29	52.13	74.00	-21.87	neak	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 27 of 59

#### 7.7 Radiated Spurious Emissions Below 1GHz

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

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

#### Limit:

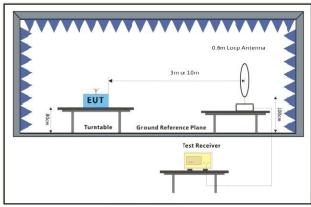
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

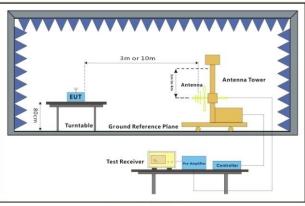
### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

#### 7.7.2 Test Setup Diagram





30MHz-1GHz Below 30MHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 28 of 59

#### 7.7.3 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 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 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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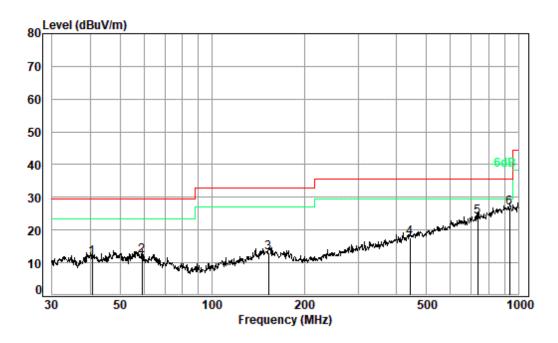


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 29 of 59

Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 03464AT

Test Mode: 00

C3 C	Mode. 00									
		Read	Ant	Cable	Preamp		Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	40.559	26.60	17.13	0.45	32.50	11.68	29.50	-17.82	QP	
2	59.025	27.03	17.18	0.55	32.48	12.28	29.50	-17.22	QP	
3	152.664	26.66	17.81	0.93	32.40	13.00	33.00	-20.00	QP	
4	441.743	27.30	21.02	1.71	32.30	17.73	35.60	-17.87	QP	
5	737.071	28.14	25.68	2.32	32.19	23.95	35.60	-11.65	QP	
6 pp	935.546	27.11	28.28	2.61	31.33	26.67	35.60	-8.93	QP	



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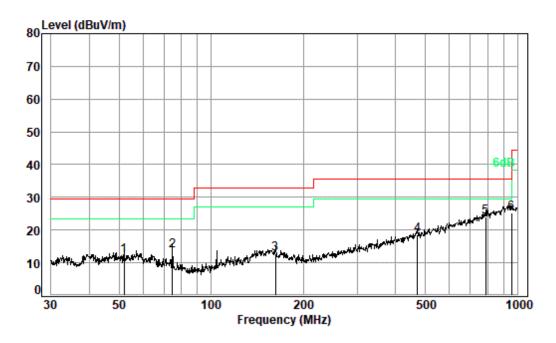


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 30 of 59

Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03464AT

Test Mode: 00

C3 C	Mode. 00								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	52.025	27.05	17.20	0.52	32.50	12.27	29.50	-17.23	QP
2	74.657	31.26	14.28	0.62	32.45	13.71	29.50	-15.79	QP
3	162.041	26.84	17.31	0.97	32.40	12.72	33.00	-20.28	QP
4	472.176	27.70	21.26	1.77	32.30	18.43	35.60	-17.17	QP
5	787.851	27.47	26.17	2.43	32.04	24.03	35.60	-11.57	QP
6 p	p 955.438	25.63	28.42	2.63	31.29	25.39	35.60	-10.21	QP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 31 of 59

he test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

L<sub>3</sub>: Level @ 3m distance. Unit: uV/m; L<sub>10</sub>: Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

#### The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarizatio n
40.559	11.68	3.84	12.79	22.14	40.00	-17.86	Н
59.025	12.28	4.11	13.70	22.74	40.00	-17.26	Н
152.664	13	4.47	14.89	23.46	43.50	-20.04	Н
441.743	17.73	7.70	25.67	28.19	46.00	-17.81	Н
737.071	23.95	15.76	52.53	34.41	46.00	-11.59	Н
935.546	26.67	21.55	71.84	37.13	46.00	-8.87	Н
52.025	12.27	4.11	13.69	22.73	40.00	-17.27	V
74.657	13.71	4.85	16.16	24.17	40.00	-15.83	V
162.041	12.72	4.33	14.42	23.18	43.50	-20.32	V
472.176	18.43	8.35	27.82	28.89	46.00	-17.11	V
787.851	24.03	15.90	53.01	34.49	46.00	-11.51	V
955.438	25.39	18.60	62.00	35.85	46.00	-10.15	V



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 32 of 59

### 7.8 Radiated Spurious Emissions Above 1GHz

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

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

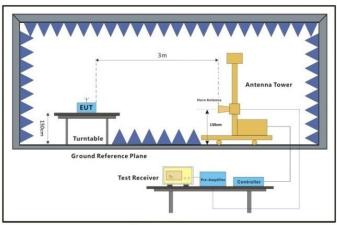
Operating Environment:

Temperature: 23.2 °C Humidity: 52.9 % RH Atmospheric Pressure: 1000 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode(1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation.

#### 7.8.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 33 of 59

#### 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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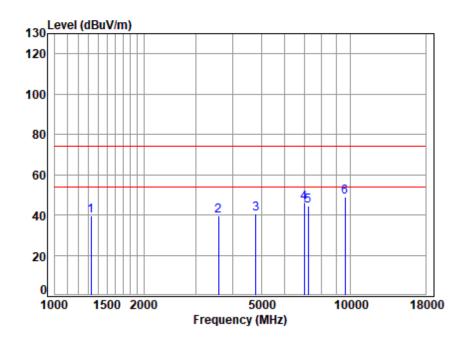


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 34 of 59

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03464AT

: 2402 TX RSE Mode

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.61	3.79	24.66	38.36	49.44	39.53	74.00	-34.47	peak
2	3577.46	6.31	31.88	36.12	37.38	39.45	74.00	-34.55	peak
3	4804.00	7.31	34.32	35.52	34.49	40.60	74.00	-33.40	peak
4	6995.17	8.92	35.71	35.57	36.89	45.95	74.00	-28.05	peak
5	7206.00	9.18	35.70	35.79	35.48	44.57	74.00	-29.43	peak
6	9608.00	12.36	37.42	37.46	36.70	49.02	74.00	-24.98	peak



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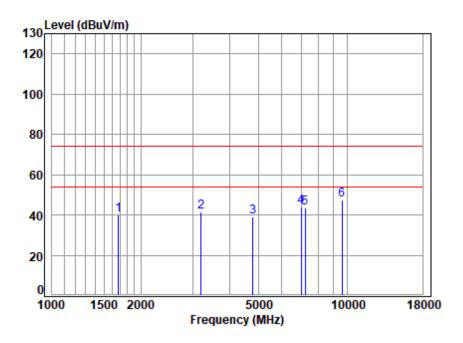


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 35 of 59

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03464AT

: 2402 TX RSE Mode

: BLE 1M Note

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.48	4.31	26.23	38.41	47.93	40.06	74.00	-33.94	peak
2	3196.09	5.84	32.87	36.13	38.71	41.29	74.00	-32.71	peak
3	4804.00	7.31	34.32	35.52	33.13	39.24	74.00	-34.76	peak
4	6995.17	8.92	35.71	35.57	35.11	44.17	74.00	-29.83	peak
5	7206.00	9.18	35.70	35.79	34.64	43.73	74.00	-30.27	peak
6	9608.00	12.36	37.42	37.46	34.91	47.23	74.00	-26.77	peak



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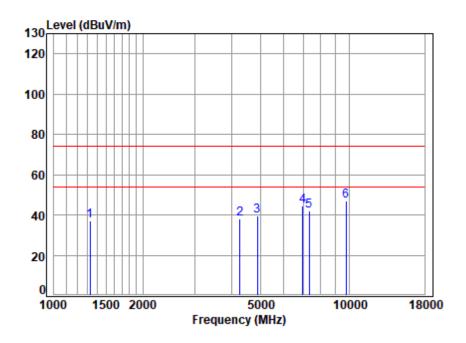


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 36 of 59

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

: 03464AT

: 2440 TX RSE Mode

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.61	3.79	24.66	38.36	46.92	37.01	74.00	-36.99	peak
2	4267.24	6.97	33.87	35.89	33.11	38.06	74.00	-35.94	peak
3	4880.00	7.36	34.62	35.47	32.82	39.33	74.00	-34.67	peak
4	6954.85	8.89	35.79	35.54	35.45	44.59	74.00	-29.41	peak
5	7320.00	9.32	35.70	35.90	32.92	42.04	74.00	-31.96	peak
6	9760.00	12.47	37.38	37.43	34.78	47.20	74.00	-26.80	peak



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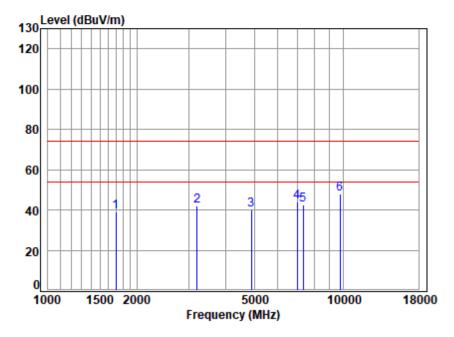


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Report No.: SZCR231000346402

Page: 37 of 59

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber Condition: 3m VERTICAL : 03464AT

: 2440 TX RSE Mode

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.13	4.33	26.21	38.41	47.08	39.21	74.00	-34.79	peak
2	3196.09	5.84	32.87	36.13	39.34	41.92	74.00	-32.08	peak
3	4880.00	7.36	34.62	35.47	33.55	40.06	74.00	-33.94	peak
4	6974.98	8.90	35.75	35.55	34.94	44.04	74.00	-29.96	peak
5	7320.00	9.32	35.70	35.90	33.39	42.51	74.00	-31.49	peak
6	9760.00	12.47	37.38	37.43	35.44	47.86	74.00	-26.14	peak



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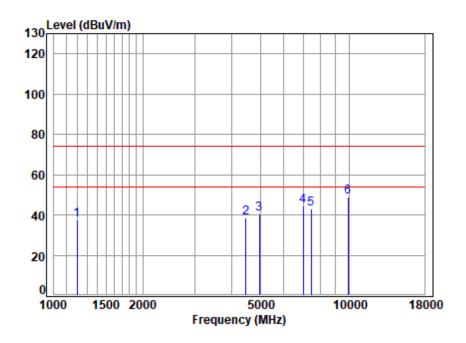


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Report No.: SZCR231000346402

Page: 38 of 59

Test Mode: 00; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

: 03464AT

: 2480 TX RSE Mode

: BLE 1M Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4400 73	2 50		20.24	47 77	27.44	74.00	36 50	
1	1199.73	3.58	24.40	38.34	4/.//	3/.41	74.00	-36.59	peak
2	4469.21	7.10	33.97	35.75	33.42	38.74	74.00	-35.26	peak
3	4960.00	7.41	34.56	35.42	34.02	40.57	74.00	-33.43	peak
4	6974.98	8.90	35.75	35.55	35.44	44.54	74.00	-29.46	peak
5	7440.00	9.46	35.96	36.02	33.55	42.95	74.00	-31.05	peak
6	9920.00	12.58	37.30	37.39	36.53	49.02	74.00	-24.98	peak



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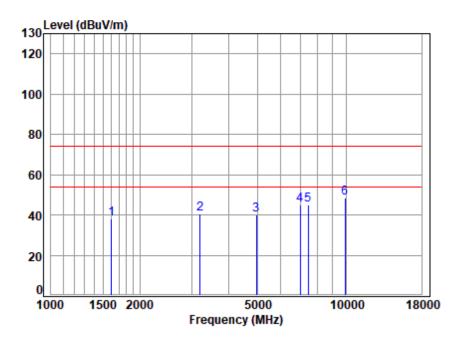


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 39 of 59

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber Condition: 3m VERTICAL : 03464AT

: 2480 TX RSE Mode

: BLE 1M Note

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.80	4.20	26.78	38.40	45.52	38.10	74.00	-35.90	peak
2	3205.35	5.86	32.81	36.13	37.85	40.39	74.00	-33.61	peak
3	4960.00	7.41	34.56	35.42	33.55	40.10	74.00	-33.90	peak
4	6974.98	8.90	35.75	35.55	35.66	44.76	74.00	-29.24	peak
5	7440.00	9.46	35.96	36.02	35.43	44.83	74.00	-29.17	peak
6	9920.00	12.58	37.30	37.39	36.16	48.65	74.00	-25.35	peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 40 of 59

#### **Test Setup Photo** 8

Refer to Setup Photo for SZCR2310003464AT

#### 9 **EUT Constructional Details (EUT Photos)**

Refer to External and Internal Photos for SZCR2310003464AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 41 of 59

## 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

	Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)				
		2402	0.394	0.625	63.04	2.00	0.00				
1M	SISO	2440	0.394	0.625	63.04	2.00	0.00				
		2480	0.394	0.625	63.04	2.00	0.03				



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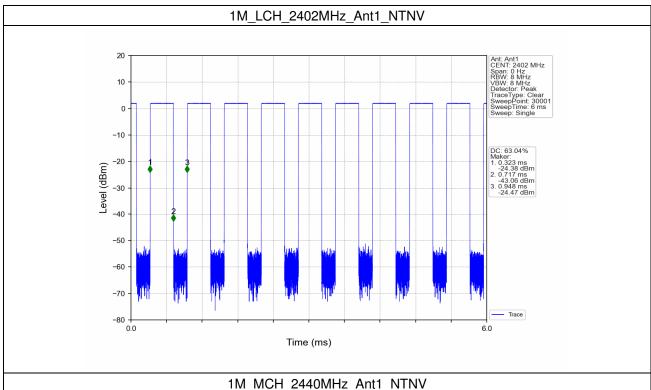


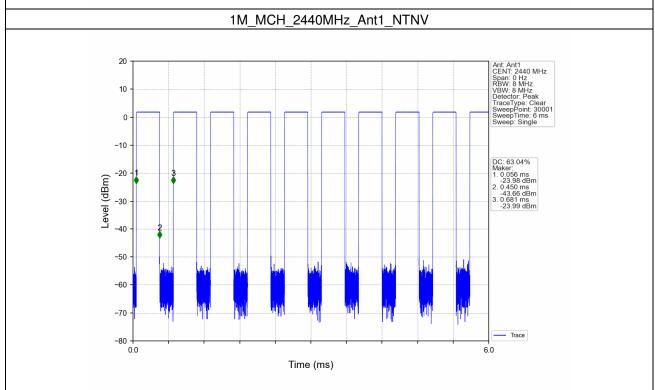
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Report No.: SZCR231000346402

Page: 42 of 59

### 1.1.2 Test Graph







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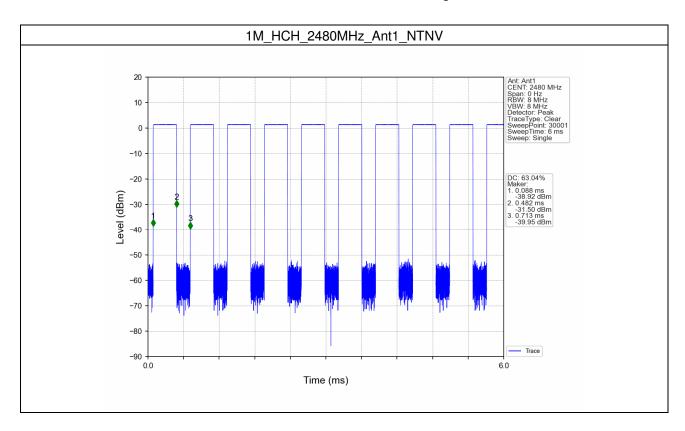
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 43 of 59





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 44 of 59

### 2. Bandwidth

2.1 OBW

#### 2.1.1 Test Result

Mada	TX	Frequency	ANT	99% Occupied E	Bandwidth (MHz)	Verdict
Mode	Type	(MHz)	ANI	Result	Limit	verdict
		2402	1	1.052	/	Pass
1M	SISO	2440	1	1.055	/	Pass
		2480	1	1.054	/	Pass



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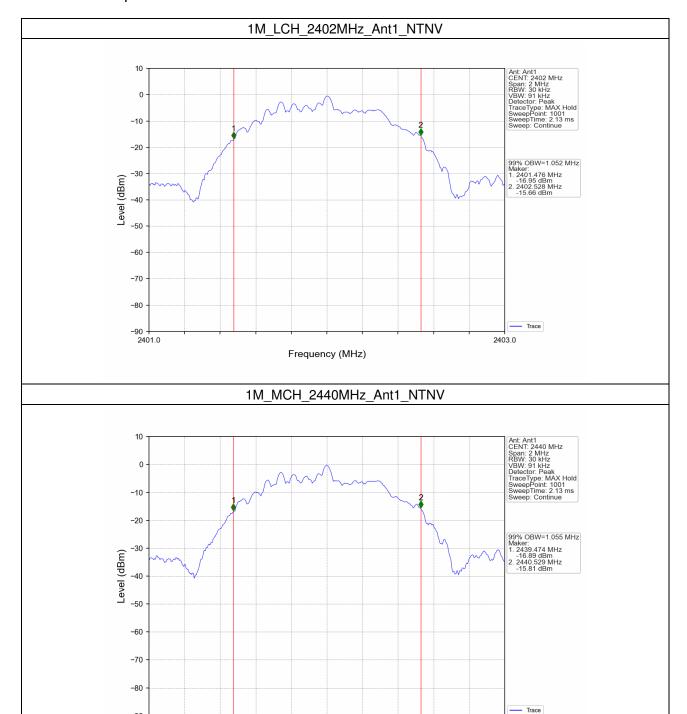


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Report No.: SZCR231000346402

Page: 45 of 59

### 2.1.2 Test Graph





2439.0

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Frequency (MHz)

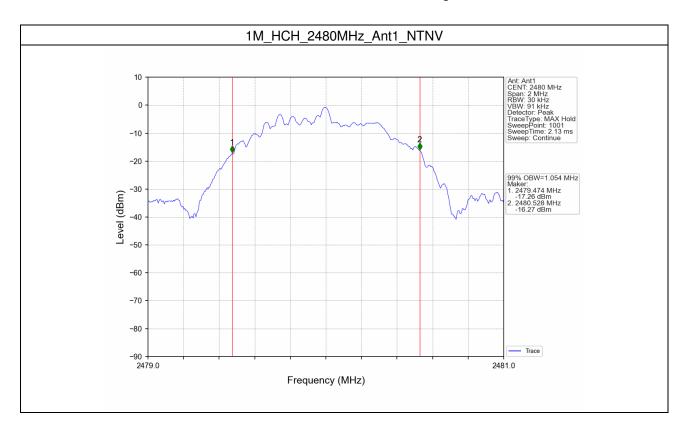
2441.0



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 46 of 59





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 47 of 59

#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX	TX Frequency		6dB Bandv	Verdict				
	Type	(MHz)	ANT	Result	Limit	Verdict			
1M	SISO	SISO	2402	1	0.689	>=0.5	Pass		
			SISO	SISO	SISO	2440	1	0.690	>=0.5
		2480	1	0.690	>=0.5	Pass			



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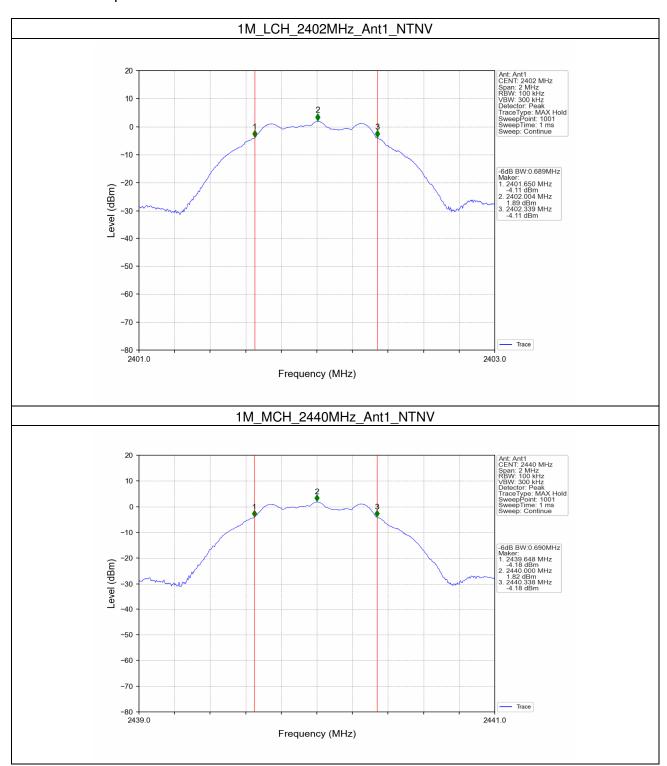


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Report No.: SZCR231000346402

Page: 48 of 59

### 2.2.2 Test Graph





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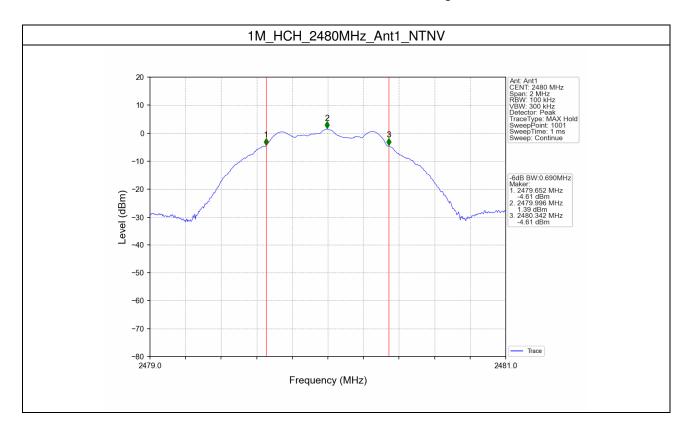
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 49 of 59





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 50 of 59

### 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX	Frequency	Maximum Peak Conduc	Verdict	
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	1.94	<=30	Pass
1M	SISO	2440	1.82	<=30	Pass
		2480	1.38	<=30	Pass

### 4. Maximum Power Spectral Density

#### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency	Maximum PS	Verdict	
iviode	Type	(MHz)	ANT1	Limit	verdict
		2402	-13.73	<=8	Pass
1M	SISO	2440	-13.80	<=8	Pass
		2480	-13.87	<=8	Pass



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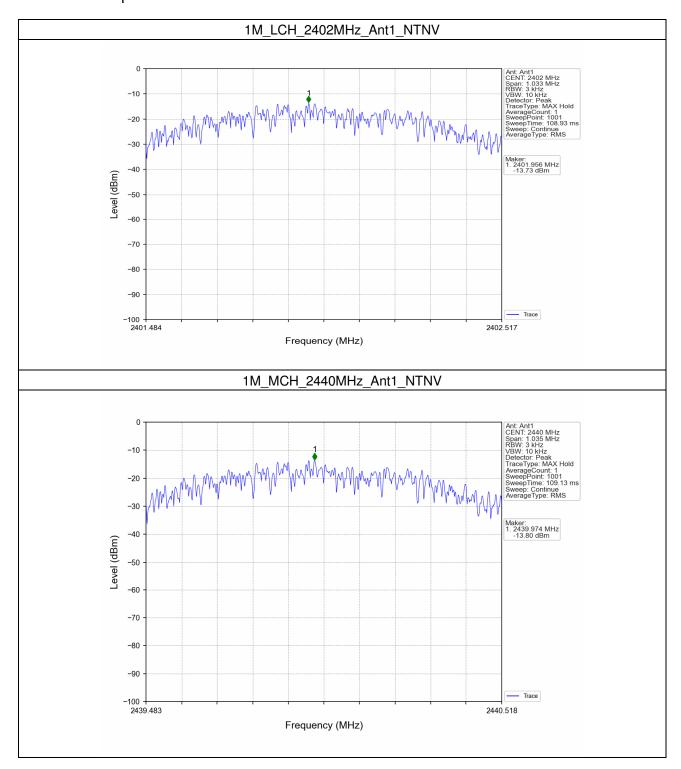


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Page: 51 of 59

### 4.1.2 Test Graph





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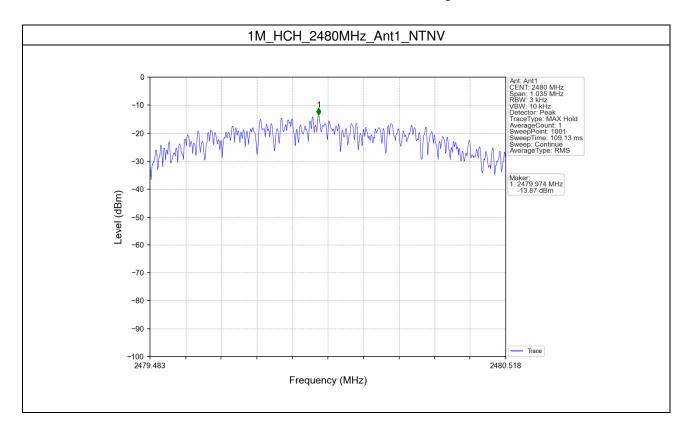
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Report No.: SZCR231000346402

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> Page: 53 of 59

### 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)
1M		2402	1	1.89
	SISO	2440	1	1.82
		2480	1	1.38

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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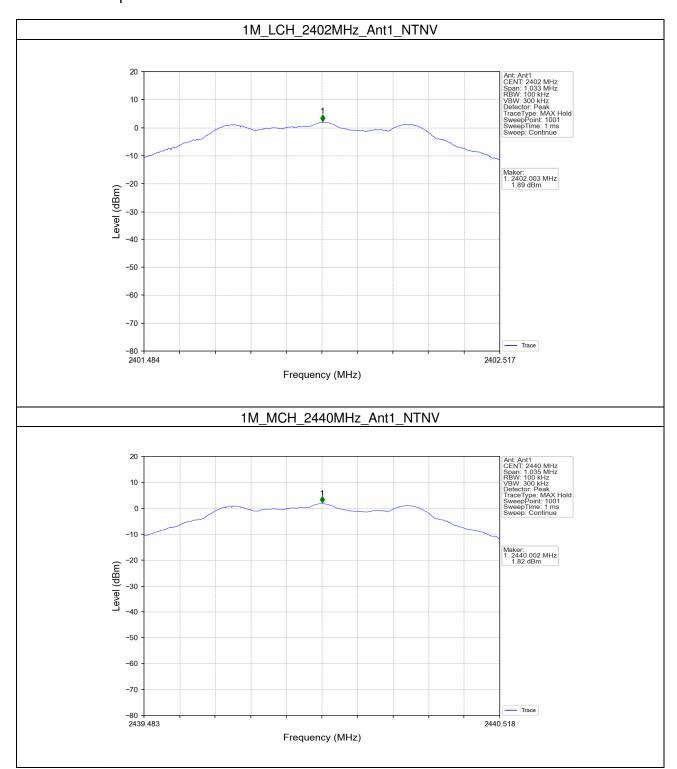


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Report No.: SZCR231000346402

Page: 54 of 59

### 5.1.2 Test Graph





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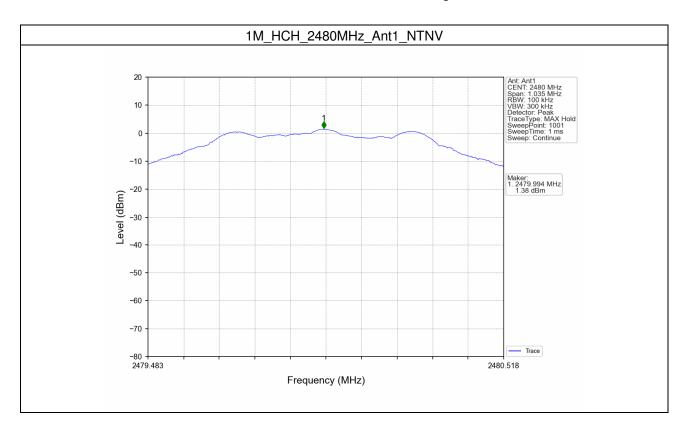
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Page: 55 of 59





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231000346402

> Page: 56 of 59

#### **5.2 CSE**

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	1	1.89	-18.11	Pass
1M	SISO	2440	1	1.89	-18.11	Pass
		2480	1	1.89	-18.11	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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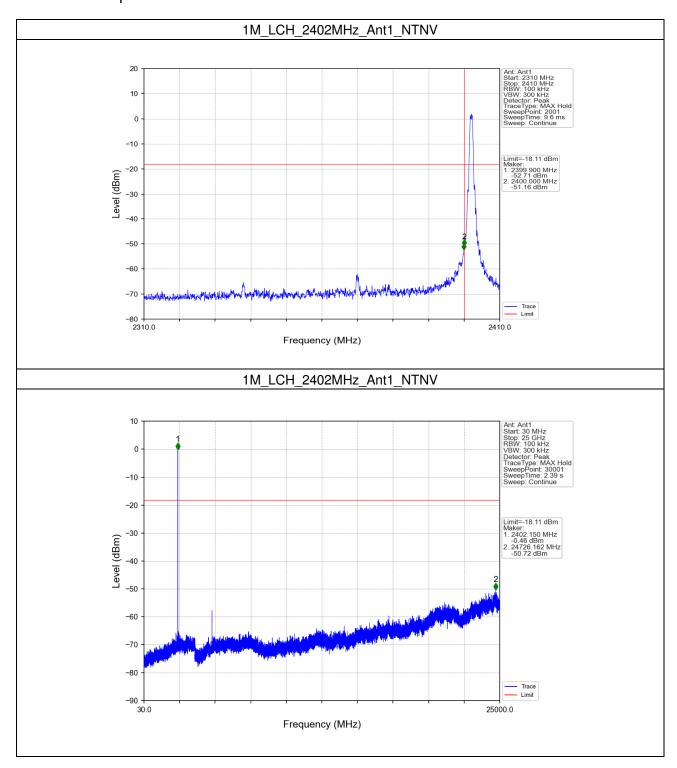


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000346402

Page: 57 of 59

### 5.2.2 Test Graph





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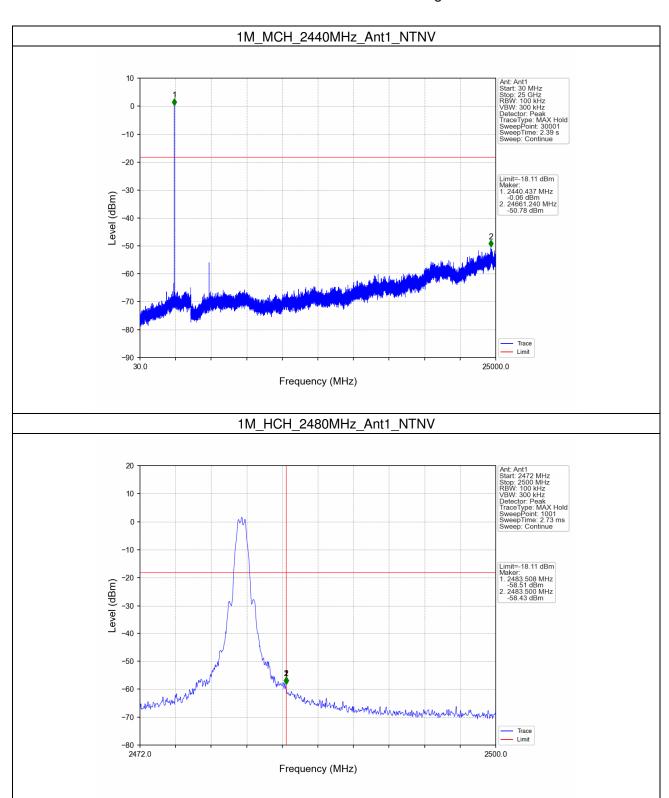
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Page: 58 of 59





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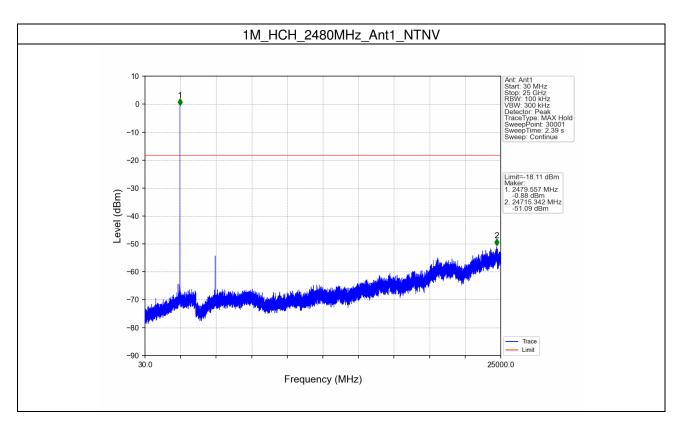
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Report No.: SZCR231000346402

Page: 59 of 59



- End of the Report -



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